



#### G.T.N. ARTS COLLEGE SELF FINANCE (AUTONOMOUS)

(Affiliated to Madural Kamaraj University || Accredited with 'B' Grade by NAAC)

#### **END SEMESTER EXAMINATION - NOVEMBER - 2021**

#### (UNDER OUTCOME BASED EDUCATION (OBE) PATTERN)

Programme: B.Sc. Information Technology

Course Code: 20UITC11

Course Title: Introduction to Programming

Date: 18.02.2022

Time: 10:00 AM - 1:00 PM

Max. Marks: 60

Q. No.	SECTION - A (10 * 1 Answer ALL Q	,	CO(s)	K - Level
1.	The OS which is not based on Linux is	•	COI	K1
	1.BSD	2.Ubuntu		
	3.centos	4.Redhat		
2.	Each process in the system has a unique	·	COI	K2
	1.pidentity	2.processidentity		
	3.proid	4.pid		
3.	The function that returns no value is called	function.	CO2	K1
	1.Main	2.return		
	3.calling	4.void		
4.	In a statement a text, individual words and punctua	tion marks are called	CO2	K2
	1.Operators	2.Keywords		
	3.Tokens	4.Constants		
5.	An array elements are always stored in	_memory locations.	CO3	KI
	1.Random	2.Random and Sequential		
	3.Sequential	4.Dynamic		
6.	is a user defined data type in C.		CO3	K2
	1.int	2.float		
	3.char	4.enum		
7.	Structure written inside another structure is called a	s of two structures.	CO4	K1
	1.comparing	2.copying		
	3.nesting	4.looping		
8.	and share a similar syntax		CO4	K2
	1. Structure 2. Union 3. Arrays 4. Pointers			
	1.3 and 4	2.1 and 2		
	3.1 and 3	4.2 and 4		
9.	is the output of c programs with arrint main()	rays and pointers.	CO5	K1

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	(20.20.40)			
	int a[3] = {20,30,40}:			
	printf("%d", *(a+1));			
	ı			
	1.0	20		
	3.30	1()		
10.	fseck() should be preferred over rewind() mainly becau-	sc	CO5	K2
	Lrewind() doesn't work for empty 2.1 files	rewind() may fail for large files		
	3 in rewind there is no way to check  if the operation completed successfully	rewind() may fail for smaller files		
Q. No.	<b>SECTION - B</b> $(5 * 4 = 20)$	Marke)	CO(s)	V
Q. 110.	Answer ALL Questi	,	CO(s)	K - Level
11. (a)	Memorize cp and my command with example.		COI	K1
,,,(-)	[OR]			
(b)	Memorize a note on grep command. Give example.		CO1	K1
12. (a)	Summarize all the basic data types available in 'C'? Re	eport the significance of each data	CO2	K2
	type.	,		
(b)	Represent with syntax how string variable is declared a	and initialized?	CO2	K2
13. (a)	Write about scope and visibility of variable with an exa		CO3	K3
13.(a)	[OR]			
(b)	Articulate string operations in C with example.		CO3	K3
14. (a)	Summarize the advantages of using Unions.		CO4	K2
14. (4)	[OR]			
(b)	Describe three different approaches that can be used to	pass structure as function arguments	. CO4	K2
15. (a)	Define pointer. Examine how the pointer is initialized?		CO5	K3
15. (4)	[OR]		GO.	
(b)	Determine the common uses of rewind() and ftell() fun	actions.	CO5	K3
, ,	<b>SECTION - C</b> $(3 * 10 = 3)$		CO(s)	К-
Q. No.	Answer any of 3	3		Level
			COI	K1
,16	List down various filter commands in detail.	ram. Give examples.	CO2	K2
17.	Express with syntax, the different loops used in C prog	on with example.	CO3	K3
18.	Articulate in detail about different categories of function	on with one of	CO4	K2
19.	Show with example how to access enumerated data type	oe.	CO5	K3
20.	Determine the following.			
	a, gete and pute functions			
	h getw and putw functions	•		
	c.fprintf and fscanf functions	**		

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Reg. No.:			,		

### G.T.N. ARTS COLLEGE SELF FINANCE (AUTONOMOUS)

CMS

(Affiliated to Madurai Kamaraj University || Accredited with 'R' Grade by NAAC)

# END SEMESTER EXAMINATION - NOVEMBER - 2021

(UNDER OUTCOME BASED EDUCATION (OBE) PATTERN)

Programme: B.B.A.

Course Code: 20UITNI1

Course Title: Fundamentals of Information Technology

Date: 17.02.2022

Time: 10:09 AM - 12:00 PM

Max. Marks: 30

Q. No.	SECTION - A (5 * 3 = 15 Marks)  Answer ALL Questions	CO(s)	K -
		661	Level
1. (a)	Recall versatility.  [OR]	CO1	KI
(b)	Identify the function of the memory.	COI	ΚI
2. (a)	Illustrate the types of memory and its uniqueness.	CO2	<b>K</b> 2
2. ()	[OR]		
(b) ·	Express Memory cache.	CO2	<b>K</b> 2
3. (a)	Recognize the uses of the plotter.	CO3	Kl
	[OR]		
(b)	State the functions of Digital Camera.	CO3	<b>K</b> 1
4. (a)	Describe application software.	CO4	K2
	[OR]		
(b)	Describe working principles of real – time operating system.	CO4	K2
5. (a)	Write a brief notes about star topology.	CO5	K3
	[OR]		
(b)	Examine the function of domain name.	CO5	K3
Q. No.	<b>SECTION - B (3 * 5 = 15 Marks)</b>	CO(s)	К-
	Answer any of 3		Level
6.	Describe the characteristic of computer.	CO1	Kl
, 7.	Tabulate the characteristics of RAM and ROM.	CO2	Kl
8.	Discuss the types of printers and its functions.	CO3	K2
9.	Explain the concept of image processor elaborately.	CO4	K2
10.	How can you apply the internet for the current scenario?	CO5	K3

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			-	and a state of the state of	processor	-
Reg. No.:						



# G.T.N. ARTS COLLEGE AIDED (AUTONOMOUS)

(Affiliated to Madurai Kamaraj University || Accredited with 'B' Grade by NAAC)

#### END SEMESTER EXAMINATION - NOVEMBER - 2021

#### (UNDER OUTCOME BASED EDUCATION (OBE) PATTERN)

Programme: B.Com

Course Code: 20UVEV11

Course Title: Value Education

Date: 16.02.2022

Time: 10:00 AM - 12:00 PM

Max. Marks: 30

Q. No.	SECTION - A (5 * 3 = 15 Marks) Answer ALL Questions	CO(s)	K - Level
1. (a)	Identify the Philosophy of Values. மதிப்புகளின் தத்துவத்தைக் கூறுக	COI	KI
	[OR]		
(b)	Write a note on Self-initiative. சுய முயற்சியைப் பற்றிக் குறிப்பு எழுதுக.	COI	K1
2. (a)	Write any three importance of 'Courage in Sikhism''. தைரியத்தை வளர்ப்பதற்கு சீக்கியம் குறிப்பிடும் மூன்று முக்கியக் காரணிகளைக் குறிப்பிடுக	CO2	K1
	[OR]		
(b)	List out the actions that students should follow for religious harmony. சமய நல்லிணக்கத்திற்கு மாணவர்கள் ஆற்ற வேண்டியவற்றைப் பட்டியலிடுக	CO2	K1
3. (a)	Explain the term" Society". சமுகம் - விளக்குக	CO3	K2
	[OR]		
(b)	Outline the role of Human Rights Council. மனித உரிமைகள் பேரவையின் பங்கைக் கோடிட்டுக் காட்டுக.	CO3	K2
4. (a)	Define "Honesty". " <b>நேர்மை</b> " வரையறு.	CO4	K2
	[OR]		
(b)	Explain Transparency. வெளிப்படைத் தன்மை அல்லது துலாம்பரத்தன்மையை விளக்குக	CO4	K2
5. (a)	Classify the Role model. முன்மாதிரியை வகைப்படுத்துக	CO5	K2
	[OR]		
(b)	Classify Mass Media. வெகுஜன ஊடகங்களை வகைப்படுத்துக.	CO5	K2
Q. No.	SECTION - B $(3 * 5 = 15 \text{ Marks})$	CO(s)	K -
	Answer any of 3		Level
6.	Describe Courage and anyone of its theories. தைரியம் மற்றும் அதன் கோட்பாடுகளுள் ஏதேனும் ஒன்றினை விவரிக்க	COI	K2

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Reg. No.:					
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# G.T.N. ARTS COLLEGE SELF FINANCE (AUTONOMOUS)

(Affiliated to Madurai Kamaraj University || Accredited with 'B' Grade by NAAC)

#### END SEMESTER EXAMINATION - NOVEMBER - 2021

#### (UNDER OUTCOME BASED EDUCATION (OBE) PATTERN)

Programme: B.A. Tamil
Course Code: 20UITN21
Course Title: E - Commerce

Date: 07.02.2022

Time: 2:00 PM - 4:00 PM

Max. Marks: 30

Q. No.	SECTION - A (5 * 3 = 15 Marks) Answer ALL Questions	CO(s)	K - Level
1. (a)	Describe Quick Response Retailing.	CO1	K1
	[OR]		
(b)	Define set-top boxes.	CO <sub>1</sub>	K1
2. (a)	Explain Internet and WWW tools which aid e-commerce.	CO2	K2
	[OR]		
(b)	Rewrite a short note on Router.	CO2	K2
3. (a)	Enumerate Quick Response and EDI.	CO3	K1
	[OR]		
(b)	Tell the Smart Card applications.	CO3	K1
4. (a)	Explain about Document constituencies.	CO4	K2
	[OR]		112
(b)	Compare Data Mining and Data Warehouses.	CO4	K2
5. (a)	Apply Gopher in your own example.	CO5	K3
	[OR]	COS	χ3
(b)	Record Information Filtering in various fields.	CO5	K3
Q. No.	SECTION - B $(3 * 5 = 15 \text{ Marks})$		
	Answer any of 3	CO(s)	K-
6.	Define Anatomy of E-Commerce applications	001	Level
7.		CO1	KI
8.	Express the scope of the Internet and web technologies in E-commerce in India.	CO2	K2
	Explain about Purchase presentation phase.	CO3	K2
9.	Show how to utilize Computer based education.	CO4	K2
10.	Illustrate the Types of Digital Documents.	CO5	<b>K</b> 3
			110

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3. Gender discrimination

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## Reg. No.: G.T.N. ARTS COLLEGE AIDED (AUTONOMOUS)

(Affiliated to Machiral Kamara) University (Accredited with 'B' Grade by NAAC) END SEMESTER EXAMINATION - NOVEMBER - 2021

(UNDER OUTCOME BASED EDUCATION (OBF) PATTERN)

Programme: B.A. History Course Code : 20UEGS21

rse Title: Environment and Gender Studies

Date: 05.02.2022

Time: 2:00 PM - 4:00 PM

Max. Marks: 30

Course	Title: Fine Total	. Marks : 30	
Q. No.	SECTION - A (5 * 3 = 15 Marks) Answer ALL Questions	CO(s)	K - Level
1 (a)	Hustrate the Environmental impacts of petroleum products. பெட்ரோலிய பொருட்களின் சுற்றுச்சூழல் பாதிப்புகளை வெளிகொணர்க [OR]	CO3	K2
(b)	Outline GeothermalEnergy. புவிவெப்ப ஆற்றலை கோடிட்டுக் காட்டுக	CO3	K2
2 (a)	<sub>Compare</sub> Renewable energy resources and Non – Renewable energy resources. புதுப்பிக்கத்தக்கஎரிசக்திவளங்களையும்புதுப்பிக்கமுடியாதஆற்றல்வளங்	CO4 I <b>களையும்ஒ</b>	K2 <b>ப்பிடுக</b>
(b)	[OR] What is Environmental pollution? State its causes. சுற்றுச்துழல்மாசுபாடுஎன்றால்என்ன? அதன்காரணங்களைக்கூறுக	CO4	K2
3. (a)	Explain the role of hormones and genes in Gender identification. பாலினதீர்மானத்தில்ஹார்மோன்கள்மற்றும்மரபணுக்களின்பங்குஎன்ன?	CO5	K2
(b)	[OR] Write down three ways to liberate the LGBTQ+ in your country. உங்கள் நாட்டில் LGBTQ + ஐவிடுவிக்க மூன்று வழிகளை எழுதுக	CO5	K2
l. (a)	Write a short note on the need of public awareness about environment? சுற்றுச்சூழல்விழிப்புணர்வுஏற்படுத்துவதன்அவசியத்தைபற்றிசிறு குறிப்பு வரைக	CO1	K1
	[OR]		
(b)	Write a note on biological environment. உயிரியல்தழல்குறித்துகுறிப்புஎழுதுக	COI	K1
. (a)	Explain energy flow from one tropic level to another tropic level. ஒருவெப்பமண்டலமட்டத்திலிருந்துமற்றொருவெப்பமண்டலநிலைக்குஆ	CO2 <b>ற்றல்ஓட்ட</b> த	K। <b>த்தைவிளக்</b> (
(b)	[OR] Explain the abiotic components of an Eco system. சுற்றுச்சூழல் அமைப்பில் உயிரற்ற காரணிகளை விளக்குக	CO2	K! .
No.	SECTION - B (3 * 5 = 15 Marks)  Answer any of 3	CO(s)	K - Level
5.	Discuss the scope of environment. சுற்றுச்சூழலின் நோக்கத்தைப் பற்றி விவாதிக்கவும்.	COI	K2
7.	Briefly explain living components. வாழும் கூறுகளை சுருக்கமாக விளக்கவும்.	CO2	K2
8.	Write a note on agricultural waste. விவசாய கழிவுகள் பற்றிய குறிப்பு எழுதவும்.	CO3	К3
9.	Bring out the effects of depletion of natural resources. இயற்கை வளங்களின் வீழ்ச்சியின் விளைவுகளைவெளி கொணர்க	CO4	K2
10.	Explain the following terms.  1. Gender identity  2. Gender roles	CO5	К3
	3 Gender dim		

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4. Gender inequality

பின்வரும் விதிமுறைகளை விளக்குங்கள்

- ் பாலின் அடையாளம்
- 2 பாலின பாத்திரங்கள்
- 3 பாலின் பாகுபாடு
- 4 பாலின சமத்துவமின்மை

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Reg. No.:



### G.T.N. ARTS COLLEGE SELF FINANCE (AUTONOMOUS)

CMB

(Affiliated to Madurai Kamaraj University || Accredited with B. Grade by VAAC)

## END SEMESTER EXAMINATION - NOVEMBER - 2021

## (UNDER OUTCOME BASED EDUCATION (OBE) PATTERN)

Programme: B.Sc. Information Technology

echnology

Course Code: 20UITC31

Course Title: Database Management System Concepts

Date: 07.02.2022

Time: 10:00 AM - 1:00 PM

Max. Marks: 60

Q. No.		A (10 * 1 = 10 Marks) ALL Questions	CO(s) K - Level
1.	The Key to represent relationship between	tables is called	COI KI
	1 primary key	2.secondary key	
	3. foreign key	4.candidate key	
2.	keyword is used to find the	number of values in a column.	COI KI
	1.TOTAL	2.COUNT	
	3.ADD	4.SUM	
3.	State the SQL statement is used to create a	database table called 'Customers'	CO2 K2
	1.Create table Customers;	2.Create db table Customers;	
	3.Create database table Customers;	4.Create table name Customers;	
4.	The SELECT operation is performed on		CO2 K1
	1.tuples of relation	2.attribute of table	
	3.entity of DBMS	4.columns of table	
5.	A functional dependency between two or mo	re non key attributes is called	CO3 K2
	l.Partial functional dependency	2.Partial non-key dependency	CO3 K2
	3. Transitive dependency	4.Full dependency	
	A double Ellipse representation is a		900
	l.Multi valued	2.Derived	CO3 K1
	3.Composite	4.Complex	
	The process of saving information onto second as	lary storage devices is referred to	CO4 K1
	1.Backing up		
	3. Writing	2.Restoring	
	B-Tree eliminates the redundant storage of	4.Reading	
	The Reys	The state of the s	CO4 K1
	3.Buckets	2.Indices	
	refers to a property of computer to rupossible as computers await response of each ot	4.Bucket skew in several operation simultaneously and her.	CO5 K2

CMS

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	1.Concurrency 2.Deadlock			
	3.Backup 4.Recovery	,		
10.	To maintain transactional integrity and database consistency, the DBMS of technology.	deploy	CO5	KI
	1.Triggers 2.Pointers			
	3.Locks 4.Cursors			
Q. No.	SECTION - B (5 * 4 = 20 Marks) Answer ALL Questions		CO(s)	K - Level
11. (a)	Define the three levels of data abstraction.		CO1.	K1
	[OR]	,		
(b)	List four significant difference between a file-processing system and DBN	AS.	CO1	K1
12. (a)	Judge the intersect operation and Except operation		CO2	<b>K</b> 3
2)	(OR)	adure in PISO	r. CO2	K3
(b)	Predict the given number is Even or Odd by implementing in and out Proc	edure in i EbQi	CO3	K2
13. (a)	Discuss the significance of cardinality ratio.		003	K2
(b)	[OR] Show 4NF in Normal form in Normalization.		CO3	K2
14. (a)	Describe the different types of file organization? Explain using a sketch of	each of them w	rithCO4	K1
14. (a)	their advantages and disadvantages.		*	
	[OR]			
(b)	Describe the ordered indices with example.		CO4	K1
15. (a)	Explain short notes on:		CO5	K2
	i) Transaction concept. ii) Deadlock.			
	I) Deadlock. [OR]			
(b)	Describe consistency and show why it is important? Explain with an examp	ole.	CO5	K2
Q. No.	SECTION - C (3 * 10 = 30 Marks) Answer any of 3		CO(s)	K - Level
16.	Describe about Views of data and State what are the functions of database a	administrator?	CO1	K1
17. ~	Construct the relational table given below and answer the following SQL quemployee(Empno, Name, Department, Salary).	ueries.	CO2	K3
	<ul> <li>(i) List all the employees whose name starts with the letter 'L'.</li> <li>(ii) Find the maximum salary given to employees in each department.</li> <li>(iii) Find the number of employees working in 'accounts' department.</li> <li>(iv) Find the second maximum salary from the table.</li> <li>(v) Find the employee who is getting the minimum Salary.</li> </ul>			
18.	Explain Functional dependency and trivial functional dependency with exam	nples.	CO3	K2
19.	Discuss briefly about B+ tree index file with example.	-1	CO4	K2
20.	Write about Concurrency Control? Explain it in terms of locking mechanism Commit Protocol.	and two phase		K3

Q. No.

1.

2.

2. Variable

type

4.Data Structure





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#### **END SEMESTER EXAMINATION - NOVEMBER - 2021**

#### (UNDER OUTCOME BASED EDUCATION (OBE) PATTERN)

SECTION - A (10 \* 1 = 10 Marks)

**Answer ALL Questions** 

Programme: B.Sc. Information Technology

Date: 08.02.2022

Max. Marks: 60

Course Code: 20UITC32

1.Structure

3.Function

An Array is

1.A Data structure that shows a

hierarchical behavior

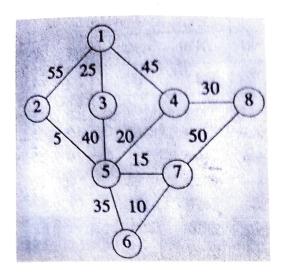
Time: 10:00 AM - 1:00 PM

Course Title: Data Structure and Computer Algorithms

K-CO(s) Level K1 CO<sub>1</sub> \_\_\_\_\_ is the logical or mathematical model of a particular organization of data. K1 COl 2. Container of objects of similar

	3.Arrays are immutable once initialized	4. Array is not a Data structure		
3.	LIFO stands for		CO2	K1
	1.Late In First Out	2.Last In First Out		
	3.Light In Figure Out	4.Late In Figure Out		
4.	Tell the result of evaluating postfix expression	5,4,6,+,*,4,9,3,/,+,* .	CO2	K1
	1.600	2.350		
	3.650	4.588		
5.	The time complexity of level order traversal is		CO3	K1
	1.O(1)	2.O(n)	003	K1
	3.O(logn)	4.O(nlogn)		
6.	A threaded binary tree traversal is	· .		
	1.A binary tree traversal using stack	2.A binary tree traversal using	CO3	K2
	3.A binary tree traversal using stack and queue	queue  4.A binary tree traversal without		
7.	An algorithm can't be represented through	using stack and queue		
•	1.Flow chart	Theretain the Control of the Control	CO4	K1
	3.Instruction in common language	2.Pseudo code		121
8.	When an algorithm is written in the form of	4.syntax		
157.45/040	When an algorithm is written in the form of a proj	gramming language, it becomes a	CO4	K2
	P/dis//exam-qp-print/18/2244/3036/4			
		•		

2, 5.55 1 14	1.Flowchart	2.Program		
	3.Pseudo code	4.Syntax		
9.	The knapsack problem is an example of		CO5	K1
	1.Greedy algorithm	2,2D dynamic programming		
	3.1D dynamic programming	4.Divide and conquer		
10.	Every graph has how many number of minimum	spanning tree?	CO5	K2
	1.1	2.0		
	3.2	4.One or more		
Q. No.	SECTION - B (5 * Answer ALL		CO(s)	K - Level
11. (a)	Describe how the following operations are performa. Insertion b. Deletion	med in linked list?	CO1	K1
	•	PR]	COI	K1
(b)	Describe the storage structure of Array.		CO2	K2
12. (a)	Discuss Stack applications in detail.	$\mathbf{R}$	002	162
(b)	Summarize the types of Trees.	M <sub>j</sub>	CO2	K2
13. (a)	Explain Skew Tree with Example.	,	CO3	K2
, ,	. [0	R		
(b)	Explain the following tree traversal with examples a. Preorder b. Posorder		CO3	K2
14. (a)	Apply Binary Search Algorithm on your own exan	nple.	CO4	K3
	[O]	RJ	CO4	K3
(b)	Report the steps involved in Quick Sort.	10.14\-(0.1.0.1)		
15. (a)	Let n=4, (p1,p2,p3,p4)=(100,10,15,27) and (d1,d2, solution for the above job scheduling.	(3,04)=(2,1,2,1), produce a feasible	CO5	K3
	OR			
(b)	Write a note on minimum cost spanning tree.		CO5	K3
Q. No.	SECTION - C (3 * 10 Answer any	,	CO(s)	K - Level
. 16.	Tabulate the advantages and disadvantages of linked	l list over Array.	CO1	K1
17.	Illustrate the routine for Push and Pop operations on	,	CO2	K2
18.	Review the steps to convert a general Tree into Bina	ry Tree.		
19.	Write a detail note on analysis of Algorithm.	•		K2
20.	Compute the minimum cost spanning tree for the give	en graph using Prim's Algorithm.	CO4 CO5	K3
				ניאו



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#### G.T.N. ARTS COLLEGE (AUTONOMOUS)

DINDIGUL - 624 005

(Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade)

# **END SEMESTER EXAMINATIONS – NOVEMBER 2021**

Programme: All Second Year UG

Course Code: 20USSS31 Course Title: Soft Skills - I Date: 12.02.2022

Time: 2 pm – 4 pm Max. Marks: 50

#### SECTION - A

[5 X 4 = 20]

### Answer any FIVE Questions.

- 1. Differentiate between soft skills and hard skills.
- 2. Define positive self talk.
- 3. What is a goal? Give some examples for goal setting.
- 4. How to achieve goals with commitment?
- 5. Describe the Time Stealers.
- 6. Define Emotional Intelligence.
- 7. How would an able leader manage a crisis in his/her organization?
- 8. What is social consciousness?

#### SECTION - B

 $[3 \times 10 = 30]$ 

#### Answer Any THREE Questions.

- 9. Write an essay on Soft Skills competencies.
- 10. List the useful guidelines for goal setting.
- 11. Explain the strategies for effective time management.

- 12. Elucidate the qualities of a leader.
- 13. What is environmental consciousness? and How do social entrepreneurs help the environment?

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### G.T.N. ARTS COLLEGE (AUTONOMOUS)

#### **DINDIGUL - 624 005**

(Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade)

#### **END SEMESTER EXAMINATIONS – NOVEMBER 2021**

Programme: All Second Year UG

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SECTION - A

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#### SECTION - B

 $[3 \times 10 = 30]$ 

#### **Answer Any THREE Questions.**

- 9. Write an essay on Soft Skills competencies.
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- 11. Explain the strategies for effective time management.

- 12. Elucidate the qualities of a leader.
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(Affiliated to Ma	I <b>L-62400</b> durai Kamaraj NAAC with 'E	<b>5</b> University) 3' Grade)			
Programme: B.Sc. IT Course Code: 17UITC11 Course Title: Fundamentals of IT HTML	and	Date: 25.02.2022 Time: 10 am. to 1 pm Max Marks: 75			
SEC	TION – A	$[10 \times 1] =$			
Answer Al	LL the Questi	ons.			
	he Best Answ				
1. A set of prerecorded instruction	•				
[a] Action [b] Hardware					
[c] Program	[d]	Method			
2. Each instruction in the instruction	n set is expres	ssed in			
[a] Instruction code	[b]	Micro code			
[c] Mnemonic code [d] None					
3. Which one is not a temporary st	orage area?				
[a] Virtual Memory	[b	] Cache			
[c] Hard drive [d] RAM					
4. The input device used mostly for	or computer g	games is the			
[a] Light pen		o] Keyboard			
[c] Scanner		d] Joystick			

CHOMOMONIN I	W.W. ARTS COLLEG	Animalion of the past concepts of 100 to the same and the past of the same and the				
5. TELNET used pro	tocols for data connection.	Answer ALL the Questions.	-35]			
[a] TCP	[b] UDP					
[c] IP	[d] DHCP	11. a) Explain the parts of a computer.				
6. is a way to it	dentify and locate computers connected to	[OR]				
internet		b) Explain the Classification of Computers.				
[a] DNS	[b] TCP	12. a) Describe the magnetic tapes & its function with diagram.				
[c] IP	[d] None	[OR]				
7. What tag is used for hyper	r link?	b) Distinguish RAM & ROM.				
[a] <i></i>	[b] <b></b>	12 Diagram on Inkiet and I ager printers				
[c] <a></a>	[d] <u></u>	13. a) Discuss on Inkjet and Laser printers  [OR]				
8. image file	e format supports 256 colors					
[a] BMP	[b] PNG	b) Write about web pages and web browsers				
[c] JPEG	[d] GIF	14. a) Explain any five tags in detail.				
9. Cell padding is		[OR]				
[a] used to space bety	ween cells	<ul><li>b) Explain about List.</li><li>15. a) What are framesets? Design a webpage using frameset.</li></ul>				
	cell walls from their contents					
[c] Both (a)&(b) abo		[OR] b) Explain the method attributes and write down its code.				
[d] Used to provide v						
	is used at the end of the user input.	SECTION – C [3 X 10 =	= 30 ]			
[a] Set	[b] Reset	Answer Any THREE Questions.				
[c] Submit	[d] OK	16. Describe about CPU, Memory and Registers of a computer s	ystem			
		17. What are input device? and discuss about the various input d	levices.			
		18. Explain about the types of networks and topology in detail.				
		19. Describe about ordered and unordered list with examples				
	2	20. Create a static webpage which defines which defines all text tags of HTML in tabular format.	formatting			

#### SECTION - C

 $[3 \times 10 = 30]$ 

#### Answer Any THREE Questions.

- 16. Describe any five basic concepts of Object Oriented Programming.
- . 17. Illustrate the concept of Multiple Constructors in a class.
- 18. Discuss about Overloading Unary Operators in C++ with an example.
- 19. Explain in detail about virtual function and polymorphism with example.
- 20. How to Open multiple Files using Open() function in C++?

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Programme: B.Sc.(IT) Course Code: 17UITC31

**Course Title: Object Oriented** 

# G.T.N. ARTS COLLEGE (AUTONOMOUS) DINDIGUL - 624005

Reg. No:

(Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade)

#### **END SEMESTER EXAMINATION -NOVEMBER2021**

Date: 16.02.2022

Max. Marks:75

Time: 10 am. to 1 pm.

Programming in C	C++						
	TION - A [10 X 1 = 10] LL the Questions.						
	Choose the Correct Answer.						
1. The feature by which one object can interact with another object is							
·							
[a] Data Transfer	[b] Data Binding						
[c] Message Passing [d] Message Reading							
2. An inline function is expanded d	during						
[a] Compile time	[b] Run Time						
[c]Never expanded [d] end of the program							
3. In C++, the class variables are called as							
[a] Functions [b] Constants							
[c] Objects [d] Methods							

- 4. What is Copy Constructor?
  - [a] to move data from one object to another.
  - [b] to initialize an object with the values of another object.
  - [c] to check whether the objects are equal or not
  - [d] to kill other copies of a given object
- 5. Which of the following operator can be overloaded?
  - [a] ?:

[b] ::

[c].

[d] = =

- 6. If Single Inheritance is used, program will contain
  - [a] at least 2 classes

[b] at most 2 classes

[c] exactly 4 classes

[d] at most 4 classes

- 7. A virtual function is a member function that can
  - [a] be overridden by a subclass
  - [b] be derived from another class
  - [c] move to any class
  - [d] be overloaded by a derived class
- 8. \_\_\_\_\_ manipulator is used to set the field width in output opertions.
  - [a] setfill()

[b] setw()

[c] setprecision()

[d] setbase()

- 9. Which header file is required to use file I/O operations?
  - [a] <ifstream>

[b] <ostream>

[c] <fstream>

[d]<iosream>

- 10. What are Command Line Arguments
  - [a] Arguments passed to main() function
  - [b] Arguments passed to any function
  - [c] Arguments passed to class functions
  - [d] Arguments passed to structure functions

#### SECTION - B

[5 X 7 = 35]

#### Answer ALL the Questions.

11. a) Explain the structure of a C++ program.

#### [OR]

- b) What is function overloading give example?
- 12. a) How to Specify a class in C++?

#### [OR]

- b) What is Constructor? List some of the special properties of constructor function.
- 13. a) What is Operator Overloading?

#### [OR]

- b) Explain Single Inheritance with an example.
- 14. a) Explain about 'this Pointer' in C++.

#### [OR]

- b) Write short notes on I/O Stream Classes.
- 15. a) What are the classes used for File Stream Operations?

#### [OR]

b) Explain with example, how Class Templates are implemented.

[a] Arguments passed to main() innerion

18. How to insert an element in a Binary Search Tree?

19. Explain in detail about Bubble Sort.

20. Discuss the representation of Graphs.

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d) to initialize an object with the values of another object	7	
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#### **END SEMESTER EXAMINATION -NOVEMBER 2021**

Programme :B.Sc.(IT)	Date: 17.02.2022
Course Code: 17UITC32	Time: 10 am. to 1 pm
Course Title: Data Structures	Max. Marks:75

#### SECTION - A

 $[10 \times 1 = 10]$ 

#### Answer ALL the Questions.

#### **Choose the Correct Answer**

- 1. How to measure the space factor for analyse an algorithm?
  - [a] To count the maximum memory required by the algorithm.
  - [b] To count the minimum memory required by the algorithm.
  - [c] To count the average memory required by the algorithm.
  - [d] To count the maximum disk space required by the algorithm.
- 2. In a circular linked list\_\_\_\_\_.
  - [a] components are all linked together in some sequential manner.
  - [b] there is no beginning and no end.
  - [c] components are arranged hierarchically.
  - [d] forward & backward traversal within the list is permitted.

data structure is used to implement depth First Search.

[d] Linked list

[5 X 7 = 35]

b) What is meant by Modular design? What are its advantages?

# $[3 \times 10 = 30]$

- 17. Illustrate an array implementation of stack.

[e] Sircular Ouene

17. Explain about Half adder and Full adder by examples

18. Write about the following:

- i) Exclusive-OR gate
- ii) Demultiplexer
- 19. . Describe about Hard-wired control unit with diagram
- 20. Explain about addressing modes.

4О4 [р]	1			[c] Evaluation
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# **END SEMESTER EXAMINATION -NOVEMBER 2021**

Programme: B.Sc. IT	Date: 18.02.2022
Course Code: 17UITA31	Time: 10 am. to 1 pm
Course Code: 170111101	Max. Marks: 75

Course Title: Digital Principles and Computer
Organization

 $[10 \times 1 = 10]$ SECTION - A Answer ALL the Questions. Choose the Correct Answer. 1. How many nibbles are there in 0101111110101? [b] 3 [a] 2<sup>-</sup> [d] 1 [c] 4 2. Which of the following is a Universal Logic Gate? [b] AND [a] OR [d] NAND [c] XOR 3. The expression Y=AB+BC+AC shows the \_\_\_\_\_ [b] SOP (Sum of Product) [a] Ex-OR [d] POS (Product of Sum) [c] NOR 101101 + 011011 = \_\_\_\_\_ 4.Perform binary addition: [b] 1010100 [a] 011010 [d] 1001000 [c] 101110

--1--

5. What is a multiplexer?

- [a] It is a type of decoder which decodes several inputs and gives one output.
- [b] It is a circuit which converts many signals into one
- [c] It takes one input and results into many output.
- [d] It is a type of encoder which decodes several inputs and gives one output.
- 6. The BCD number 101011 has \_\_\_\_\_ parity.
  - [a] Even

[b] Odd

[c] both even and odd

- [d] undefined
- 7. During the execution of a program which gets initialized first?
  - [a] MDR

[b] IR

[c] PC

- [d] MAR
- 8. The special memory used to store the micro routine are called as \_\_\_\_\_.
  - [a] micro task

[b] micro operation

[c] micro instruction

- [d] micro command
- 9. The addressing mode, where you directly specify the operand value is \_\_\_\_
  - [a] immediate

[b] direct

[c] definite

- [d] relative
- 10. The fastest data access is provided using \_\_\_\_
  - [a] Cache

[b] DRAM

[c] SRAM

[d] Registers

#### Answer ALL the Questions.

11. a) Convert decimal 108.85 to a binary number.

#### [OR]

- b) Explain OR Gates with two input and three input truth tables.
- 12. a) Simplify the Boolean equation & describe the logic circuit.

$$Y = ABC + ABC + ABC + ABC$$

#### [OR]

- b) Write short notes on Full Adder.
- 13. a) Explain Demultiplexer with neat block diagram.

#### [OR]

- b) Discuss about Encoders.
- 14. a) Describe about computer register for the basic computer

#### [OR]

- b) Show how microprogram sequencer is working with neat diagram
- 15. a) Differentiate between Pipeline and Parallel processing

#### [OR]

b) Explain about different Addressing modes by example

 $[3 \times 10 = 30]$ 

#### Answer Any THREE Questions.

- 16. Convert the following:
  - i)  $(0.85)_{10} = (?)_2$
  - ii)  $(23.6)_{10} = (?)_2$
  - iii)  $(175)_{10} = (?)_8$
  - iv)  $(C5E2)_{16} = (?)_2$
  - v)  $(1110100101110100)_2 = (?)_{16}$

--2--

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G.T.N. ARTSCOLLEGE (AUTONOMOUS)  (Affiliated to Madurai Kamaraj University)  (Accredited by NAAC with 'B' Grade)  END SEMESTER EXAMINATION – APRIL-2020								
Programme: B.Sc. IT Date: 05.02.2022								
Course Code: 17UITC41 Course Title: Relational Date	tahase	Time: 2 pm. Max Marks	-					
Management		Waa Waa K						
·	SECTION -	A	$[10 \times 1 = 10]$					
	ver ALL the Q							
	se the Correct	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1					
1 is a more abstract	,	a model that has	a good					
description of the data is a	an enterprise.							
[a] Abstract Data Mod	el	[b] Relational I	Data Model					
[c] Semantic Data Mo	del	[d] Dynamic Data Model						
2. Which constraints determine whether two subclasses are allowed to								
contain the same entity.								
[a] Specialized		[b] Generalized	1					
[c] Covering		[d] Overlap						

[b] Records

[d] Domain

[b] Tuple Relational Calculus

[d] Tuple Relational Constrains

3. The tuple are also called \_

[a] Entity

[c] Column

4. TRC stands for \_\_\_\_\_.

[a] Table Relational Calculus

[c] Tuple Record calculus

5. Through which evaluation strategy So	QL query is evaluated?			
[a] Triggers	[b] Concephial			
[c] Query	[d] Relational			
6. A is a relationship between two	attributes.			
[a] Functional Dependency	[b] Normalization			
[c] Trigger	[d] Decomposition			
7. In Pl/SQL, an error condition is called				
[a] cursor	[b] trigger			
[c] packages	[d] exception			
8. A join dependency is a further generalization of				
[a] ABCD	[b] FD			
[c] MVDs	[d] BCD			
9 means only authorized users sho	uld be allowed to modify data.			
[a] Secrecy	[b] Integrity			
[c] Availability	[d] Mechanism			
10 provides the foundation for	modern authentication.			
[a] Security	[b] Decryption			
[c] Authentication	[d] Encryption			
SECTION -	B $[5 \times 7 = 35]$			
Answer ALL the	e Questions.			
11. a) Write notes on the levels of Abstract	ction in DBMS.			
[OR]				
b) Describe Entity, Attributes & Entity	set with an example.			

12. a) Describe how entity set is mapped to relation.

#### [OR]

- b) Write notes on Tuple relational calculus.
- 13. a) How does SQL build on and extend relational algebra and calculus?

#### [OR]

- b) Explain the Function dependencies.
- 14. a) Write notes on procedures in PL/SQL.

#### [OR]

- b) Explain triggers in PL/SQL.
- 15. a) List out the three main objectives of secure database applications. Explain them in detail.

#### [OR]

b) Write notes on encryption

#### SECTION - C

 $[3 \times 10 = 30]$ 

## **Answer Any THREE Questions.**

- 16. Explain conceptual design with ER model.
- 17. Write notes on integrity constraints over relations with examples.
- 18. Discuss on Nested Queries.
- 19. Write notes on cursors.
- 20.Discuss on discretionery access control through grant and revoke commands.

Explain it with an example.

- 19. Explain about Memory Hierarchy and Memory Management Strategies?.
- 20. Breifly explain about file allocation method with suitable example.



# G.T.N. ARTS COLLEGE (AUTONOMOUS) DINDIGUL - 624005

Rog. No:

(Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade)

### **END SEMESTER EXAMINATION - NOVEMBER 2021**

Programme : B.Sc. I.T. Course Code: 17UITC42 Course Title : Operating System (	Tit	te : 7.02.2022 ne: 2.00 pm to 5.00 pm. ıx Marks :75
Answer Al	TION – A LL the Questic Correct Answ	
1. The software that contains the c	ore component	s of the operating system is
called		
[a] program	[b] n	nemory
[c] kornol	[d] i	nstruction
2. To access the services of operat	ing system, the	interface is provided by
[a] system calls	[6] /	API
[c] library	[d] a	ssembly instructions
3. Semaphore is a/an	to solve the	critical section problem
[a] Hardware for a system	[6] [	Program for a system
[c]Integer Variable	[d]S	pecial instruction

 $[5 \times 7 = 35]$ 

 $[3 \times 10 = 30]$ 

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# G.T.N. ARTS COLLEGE (AUTONOMOUS). DINDIGUL-624005

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#### **END SEMESTER EXAMINATION - NOVEMBER 2021**

Programme: B.Sc. IT **Course Code: 17UITA41** 

Course Title: Numerical Methods

Date: 08.02.2022

Time: 2 pm. to 5 pm.

Max Marks:75

 $[10 \times 1 = 10]$ 

Answer ALL the Questions. Choose the Correct Answer.

- 1.  $x^3$ -3x+1=0 has a root lies between
  - [a] 1 and 2

[b] 0 and 1

[c] 3 and 4

- [d] -1 and 0
- 2. One root of  $x^3 3x + 1 = 0$  lies between and
  - [a](1,2)

[b](-1,0)

[c](2,3)

- [d](4,5)
- 3. The coefficient matrix  $A = \begin{bmatrix} 1 & 6 & -2 \\ 4 & 1 & 1 \end{bmatrix}$  is \_\_\_\_\_.
  - [a] diagonally dominant

[b] not diagonally dominant

[c] rectangular matrix

[d] row matrix

This section discusses how to define custom attributes and specify their values. The next section

deals with retrieving and applying the values at runtime.

When a view is created from an XML layout, all of the attributes in the XML tag are read from the resource bundle and passed into the view's constructor as an AttributeSet. Although it's **Apply Custom Attributes** possible to read values from the AttributeSet directly, doing so has some disadvantages:

Resource references within attribute values are not resolved

Instead, pass the AttributeSet to obtainStyledAttributes(). This method passes back a TypedArray array of values that have already been dereferenced and styled.

Attributes are a powerful way of controlling the behavior and appearance of views, but they can Add Properties and Events only be read when the view is initialized. To provide dynamic behavior, expose a property getter and setter pair for each custom attribute. The following snippet shows how PieChart exposes a property called showText

Your custom view should support the widest range of users. This includes users with disabilities that prevent them from seeing or using a touchscreen. To support users with disabilities, you should:

- Label your input fields using the android:contentDescription attribute
- Send accessibility events by calling sendAccessibilityEvent() when appropriate.
- Support alternate controllers, such as D-pad and trackball

4. If A is diagonally dominant, then the system is said to be a \_\_\_\_\_\_.

[a] converge

[b] diverge

[c] dominant

[d] diagonal system

of Gauss forward and Gauss backward 5. Stirling's formula is the interpolation method.

[a] addition

[b] averge

[c] difference

[d] multiplication

6. In iterative method, the first approximation to p is \_\_\_\_\_.

[a] 
$$p_1 = \frac{1}{\Delta y_0} (y_p - y_0)$$

[a] 
$$p_1 = \frac{1}{\Delta y_0} (y_p - y_0)$$
 . [b]  $p_1 = \frac{1}{\Delta y_0} (y_0 - y_p)$ 

[c] 
$$p_1 = \frac{1}{\Delta y_p} (y_p - y_0)$$

[d] 
$$p_1 = \frac{1}{\Delta y_p} (y_0 - y_p)$$

7. Central difference formula derived from \_

- [a] Numerical differentiation
- [b] Lagrange's interpolation

[c] Newton's formula

[d] Stirling's formula

8. The error in Simpson's one third rule is order

 $[a] h^2$ 

[b] h<sup>3</sup>

 $[c] h^4$ 

 $\lceil d \rceil h^6$ 

9. The expansion  $y1 = y0 + \frac{h}{11}y_0' + \frac{h^2}{21}y_0'' + \dots$  is known as

- [a] Taylor's series expansion
- [b] Euler's series expansion
- [c] Modified Euler's series expansion
- [d] Runge-kutta Series

10. In third order Runge-Kutta formula, K<sub>2</sub> is \_\_\_\_\_\_

[a] 
$$hf(x_0, y_0)$$

[a] 
$$hf(x_0, y_0)$$
 [b]  $hf(x_0 + \frac{h}{2}, y_0 + \frac{k_1}{2})$ 

[c] 
$$hf(x_0 + h, y_0 + k_1)$$
 [d]  $hf(x_0 + h, y_0 + k_2)$ 

[d] 
$$hf(x_0 + h, y_0 + k_2)$$

 $[5 \times 7 = 35]$ SECTION - B Answer ALL the Questions.

11. a. Find the real of the equation  $x^3 - 3x + 1 = 0$  lying between 1 and 2 correct to 3 places of decimals by using bisection method.

[OR]

b. Find the smallest positive root of  $x^2 - \log_e x - 12 = 0$  by Regula Falsi method.

12. a. Using Gaussian elimination method solve the following

$$x + y + z = 9$$
;  $2x - 3y + 4z = 13$ ;  $3x + 4y + 5z = 40$ 

[OR]

b. Using Gauss Jordan method solve the following

$$5x - 2y + 3z = 18$$
;  $x + 7y - 3z = -22$ ;  $2x - y + 6z = 22$ 

13. a) If 
$$y(75) = 246$$
,  $y(80) = 202$ ,  $y(85) = 118$ ,  $y(90) = 40$ , find  $y(79)$ .

#### [OR]

b) Using Lagrange's formula to find the value of y at x = 6, from the following data.

X	3	7	9	10
У	168	120	72	63

14 .a. Find 
$$\frac{dy}{dx}$$
 and  $\frac{d^2y}{dx^2}$  at  $x = 51$  from the following table

I IIIG	$dx$ $dx^2$	at A DI Holli				
х	50	60	70	80	90	
у	19.96	36.65	58.81	77.21	94.61	
[OR]						

- b. Evaluate  $\int_{0}^{\frac{\pi}{4}} \frac{dx}{4x+5}$  by Trapezoidal rule using 11 coordinates.
- 15. a) Using Taylor's method, find y(0.1) correct to three decimal places from  $\frac{dy}{dx} + 2xy = 1, y_0=0.$

#### [OR]

b) Solve 
$$\frac{dy}{dx} = 1-y$$
,  $y(0) = 0$ , using Euler's method. Find y at  $x = 0.1$  and  $0.2$ .

- 16. Find the negative root of  $x^3-2x+5=0$  correct to three decimal places by the Newton Raphson method.
- 17. Solve the following system of equation using Gauss seidel iteration Method.

$$6x + 15y + 2z = 72$$
;  $x + y + 54z = 110$ ;  $27x + 6y - z = 85$ 

- 18. Tabulate  $y = x^3$  for x = 2,3,4,5 and calculate the cube root of 10 correct to three decimal places.
- 19. Evaluate  $\int_{0}^{10} \frac{dx}{1+x^2}$  by using
  - (i)Trapezoidal rule
- (ii) Simpson one third rule
- 20. Using Runge-Kutta method of 4<sup>th</sup> order for the differential equation

$$\frac{dy}{dx} = xy + y^2$$
,  $y(0) = 1$ . Compute y(0.1) and y(0)

Reg. No:					
G.T.N. ARTS COLLEGE (AUTONOMOUS)  DINDIGUL - 624005  (Affiliated to Madurai Kamaraj University)  (Accredited by NAAC with 'B' Grade)  END SEMESTER EXAMINATION – NOVEMBER 2021					
Programme: B.Sc. (IT) Course Code: 17UITC51	Date: 05.02.2022 Time: 10 am. to 1 pm.				
Course Title: Data Communication and Computer Networks  Computer Networks					
SECTION -	-A   [10 X 1 = 10]				
Answer ALL the Questions.					
Choose the Corre	ct Answer.				
1. Communication between a computer and a keyboard involves					
[a] Simplex [b] Half duplex					
[a] Simplex	[b] Half duplex				
[c] Full Duplex	[b] Half duplex [d] None of these				
	[d] None of these				
[c] Full Duplex	[d] None of these				
[c] Full Duplex  2. Which topology requires a central contro	[d] None of these ller or hub?				
<ul><li>[c] Full Duplex</li><li>2. Which topology requires a central contro</li><li>[a] Ring</li></ul>	[d] None of these ller or hub? [b] Mesh				
<ul><li>[c] Full Duplex</li><li>2. Which topology requires a central contro</li><li>[a] Ring</li><li>[c] Bus</li></ul>	[d] None of these ller or hub? [b] Mesh				
[c] Full Duplex  2. Which topology requires a central contro [a] Ring [c] Bus  3. Check sum is used for	[d] None of these ller or hub? [b] Mesh [d] Star				
[c] Full Duplex  2. Which topology requires a central contro [a] Ring [c] Bus  3. Check sum is used for  [a] Error correction	[d] None of these  ller or hub?  [b] Mesh  [d] Star  [b] Error detection  [d] None of the above				
[c] Full Duplex  2. Which topology requires a central contro  [a] Ring  [c] Bus  3. Check sum is used for  [a] Error correction  [c] Both (a) and (b)	[d] None of these  ller or hub?  [b] Mesh  [d] Star  [b] Error detection  [d] None of the above				

5. Which one of the following is a da	ata link protocol?			
[a] Ethernet	[b] Point to Point Protocol			
[c] HDLC	[d] All of the above			
6. Token Bus is physically configured like				
[a] ethernet	[b] token Ring			
[c] FDDI	[d] All of the above			
7. In distance vector routing, the up	odating packets are sent			
[a] periodically	[b] When there is a change			
[c] Either (a) or (b)	[d] Neither (a) nor (b)			
8. The Dijkstra algorithm is used i shortest path tree.  [a] distance vector	routing to find the			
[c] both (a) and (b)	[d] neither (a) nor (b)			
	registered hosts according to their generic			
[a] inverse	[b] country			
[c] generic	[d] none of the above			
10. The is a standar	rd for specifying any kind of information on			
the internet. [a] ULR	[b] RLU			
[c] LUR	[d] URL			
	SECTION - B   [5 X 7 = 35]			
Answer ALL the Questions.				
11. a) Describe in detail about	TCP/IP Architecture.			
	[OR]			

12. a) What is error? Describe about error detection with example.

#### [OR]

- b) Give a brief account on HDLC with example.
- 13. a) Write a brief note on ethernet token bus with example.

#### [OR]

- b) Explain in detail about FDDI.
- 14. a) Describe about internetwork protocol.

#### [OR]

- b) Write a brief note on transmission control protocol.
- 15. a) Describe in detail about electronic mail.

#### [OR]

b) Write a brief note on SNMP.

#### SECTION - C

 $[3 \times 10 = 30]$ 

#### Answer Any THREE Questions.

- 16. Discuss in detail about transmission media with example.
- 17. Write an elaborate note on LAN transmission equipment with example.
- 18. Describe in detail about WAN transmission methods.
- 19. Explain about routing principles with example.
- 20. Discuss in detail about World Wide Web.

#### SECTION - C

 $[3 \times 10 = 30]$ 

#### **Answer Any THREE Questions.**

- 16. Discuss briefly about programming team structure.
- 17. Explain about algorithmic cost model.
- 18. Elucidate structured analysis and design techniques.
- 19. Illustrate about Jackson structured programming.
- 20. Describe briefly about the system testing.

Reg. No:					



# G.T.N. ARTS COLLEGE (AUTONOMOUS) DINDIGUL-624005

(Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade)

#### **END SEMESTER EXAMINATION - NOVEMBER 2021**

Programme: B.Sc. IT

Course Code: 17UITC52

Course Title: Software Engineering

Date: 07.02.2022

Time: 10 am. to 1 pm.

Max. Marks: 75

SECTION - A

 $[10 \times 1 = 10]$ 

#### Answer ALL the Questions.

Choose the Correct Answer.				
1. A project requires 5 to 20 programmers for a period of 2 to 3 years.				
[a] small	[b] large			
[c] medium	[d] trivial			
2. Themodel segments the software life cycle into a series of				
successive activities.				
[a] phased	[b] cost			
[c] prototype	[d] milestones			
3. estimation focuses on system level costs.				
[a] Top-down	[b] Bottom-up			
[c] Product complexity	[d] Product size			

4 cost estimators compute the	e estimated cost of software system as	10 is the process of isola	ating and correcting the cau	ises of known	
the sum of the costs of the module a	and subsystems.	errors.			
[a] Delphi	[a] Delphi [b] Expert judgement		[a] Debugging [b] Acceptance Te		
[c] Rayleigh	[d] Algorithmic	[c] System Testing	[d] Integrati	[d] Integration Testing	
5. state the properties of a sol	ution without stating a solution method.		SECTION - B	$[5 \times 7 = 35]$	
[a] Recurrence relation	[b] Algebraic Axiom	Answe	er ALL the Questions.		
[c] Implicit equation	[d] Regular Expression	11. a) Explain about the project	t size categories.		
6 is an automated analyser for	or processing requirement stated in PSL.		[OR]		
[a] RSL	[b] REVS	b) Illustrate the cost model	• -		
[c] PSA	[d] PAS				
7. coupling involves the use	of parameter lists to pass data item	12. a) Write a note on product			
between routines.			[OR]		
[a] Content	[b] Common	b) Explain about work brea	akdown structure.		
[c] Control	[d] Data	13. a) Illustrate about regular e	expression with example.		
8notation can be used in bo	he weed in both architectural and detailed design		[OR]		
phases.		b) Explain PSL/PSA with	neat diagram.		
[a] Pseudo code	[b] Decision table	14. a) Discuss various types of	f cohesion.		
[c] Data flow diagram	[d] Procedure template	14. a) Discuss various types of	[OR]		
9. is planned and systematic	c pattern of all action necessary to provide	b) Explain the structure ch	-		
adequate confidence that the item	or product conforms to established	· · · · · · · · · · · · · · · · · · ·			
technical requirements.		15. a) Elucidate about the stat	ic analysis.		
[a] Static Analysis	[b] System Execution	, *	[OR]		
[c] Inspection	[d] Quality Assurance	b) What is meant by debu	gging? Explain.		

12. a) Define inheritance. Write all types of inheritance in Java with neat diagram.

#### [OR]

- b) How to define access and import a package? Explain with examples.
- 13. a) Write a Java program for checking the given number is Armstrong number or not using AWT components.

#### [OR]

- b) Write a Java program to implement the mouse event.
- 14. a) Write a Java applet program to find the sum of two numbers.

#### [OR]

- b) How to set priorities for threads? Discuss with examples.
- 15. a) List the characteristics of Javasocket.

#### [OR]

b) Write the steps to connect a database into Java application via JDBC?

#### **SECTION - C**

 $[3 \times 10 = 30]$ 

#### Answer Any THREE Questions.

- 16. Describe all fundamental concepts of OOPs in Java in detail.
- 17. Discuss the methods available under String and String Buffer class with a suitable example.
- 18. Discuss any two different layout managers in AWT with example program.
- 19. Differentiate the multithreading and multitasking.
- 20. Write a Javasocket programming to exchange the text between the client and server.

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# G.T.N. ARTS COLLEGE (AUTONOMOUS) DINDIGUL - 624005

:wəşsksqns pur әүпрош әұр зо डाइ०० әұр зо шпร әұр

(Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade)

# **END SEMESTER EXAMINATION – NOVEMBER 2021**

Programme: B.Sc. (IT)	Date: 08.02.2022
Course Code: 17UITC53	Time: 10 am. to 1 pm
Course Title: Java Programming	Max. Marks :75

Reg. No:

#### SECTION - A

 $[10 \times 1 = 10]$ 

Answer ALL the Questions. Choose the Correct Answer.

- 1. Which two features of object-oriented programming are the same?
  - [a] Abstraction and Polymorphism features are the same
  - [b] Inheritance and Encapsulation features are the same
  - [c] Encapsulation and Polymorphism features are the same
  - [d] Encapsulation and Abstraction
- 2. All the wrapper classes (Integer, Boolean, Float, Short, Long,

Double and Character) in Java are	<u> </u>
[a] private	[b] fina

[c] immutable [d] serializable

3. What is the result of the following piece of code?

publicclass Person

{ public void talk()
· {
System.out.print("I am a Person");

3				
public class Student extends Person				
{     public void talk()				
System.out.print("I am a Student");				
} } public class Test	*			
<pre>public static void main(String args[]) {</pre>				
Person p = new Student(); p.talk();				
} } [a] I am a Person	[b] I am a Person I am a Student			
[c] I am a Student I am a Person	[d] I am a Student			
4. Which of the following packages is used Calendar, Collection and Date?				
[a] java.util	[b] java.awt			
[c] java.net	[d] java.lang			
5. Package of drawString() method is				
[a] java.awt [c] javax.io	[b] java.swing [d] java.applet  to draw a rectangle with the			
[c] javax.10  6. In graphics class, which method is used specified width and height?				
ral public abstract void drawLine(	(int  x1,  int  y1,  int  x2,  int  y2),			
[b] public abstract void fillRect(in	at x, int y, int width, int height),			
[c] public abstract void drawOval(int x, int y, int width, int height),				
[d] public void drawRect(int x, int y, int width, int height)				

7. In Java, a thread can be created by	·
[a] extending the thread class	
[b] implementing runnable interface	
[c] Both (a) and (b)	
[d] extending the runnable class	
8. Which of this class is not a member class	of java.io package?
[a] File	[b] StringReader
[c] Writer	[d] String
9. Which of the following code retrieves the	value of a request parameter?
[a] header.getParameter(name)	[b] response.getParameter(name)
[c] request.getParameter(name)	
10. The method executes a simp	le query and
returns a single result set object	
[a] executeUpdate()	[b] executeQuery()
[c] execute()	[d] noexecute()
	$[5 \times 7 = 35]$
SECTION – I Answer ALL the	•
11. a) How do implement the class concept	in Java OOPS? Explain it with
a suitable program.	

[OR]

b) What is an exception? Explain exception handling in Java with relevant examples in program.

7. In lava, a thread can be created by

- b) Write a note on socio-political awareness.
- ஆ) சமூக அரசியல் விழிப்புணர்வு குறித்து ஒரு குறிப்பு எழுதுக.
- 14. a) Explain the term 'Honesty'.
  - அ)'நேர்மை' என்ற வார்த்தையை விளக்குக.

#### [OR]

- b) Why should we respect others? Explain.
- ஆ) நாம் ஏன் மற்றவர்களை மதிக்க வேண்டும்? விளக்குக.
- 15. a) Explain the important values created by family.
  - அ) குடும்பத்தால் உருவாக்கப்பட்ட முக்கியமான மதிப்புகளை விளக்குக.

#### [OR]

- b) Explain the role of mass media in value formation.
- ஆ) மதிப்பு உருவாக்கத்தில் ஊடகங்களின் பங்கை பற்றி விளக்குக.

#### SECTION - C

 $[3 \times 10 = 30]$ 

#### **Answer Any THREE Questions.**

- 16. Explain the need for value education in detail. மதிப்புக்கல்வியின் அவசியத்தைப் பற்றி விரிவாக விளக்குக.
- 17. Discuss about moral values of Hinduism and Karma yoga. இந்து மதம் மற்றும் கர்ம யோகத்தின் தார்மீக மதிப்புகளை பற்றி விவாதிக்கவும்.
- 18. Write about Secularism and Socialism. மதசார்பின்மை மற்றும் பொது உடைமை பற்றி எழுதுக.
- 19. Discuss the various aspects of team spirit and competence development கூட்டு முயற்சி மற்றும் திறன் வளர்ச்சியின் பல்வேறு அம்சங்களைப் பற்றி விவாதிக்கவும்.
- 20. Describe how values can be promoted through educational institutions. கல்வி நிறுவனங்கள் மூலம் மதிப்புகளை எவ்வாறு மேம்படுத்தலாம் என்பதை விவரிக்கவும்.

Reg. No:

nosia spuatic class Student extends Person



## G.T.N. ARTS COLLEGE (AUTONOMOUS)

#### DINDIGUL - 624 005

(Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade)

## **END SEMESTER EXAMINATIONS – NOVEMBER 2021**

Programme: All Final Year Students	Date: 04.03.2022
Course Code: 17UVEV61	Time: $2 pm - 5 pm$
Course Title: Value Education	Max. Marks: 75

#### SECTION - A

 $[10 \times 1 = 10]$ 

Answer ALL the Questions. Choose the Correct Answer.

1. Taking care of personal posses	sions and public property for proper use is
called values.	
[a] Physical	[b] Mental
[c] Social	[d] Material
முறையான பயன்பாட்டிற்காக	தனிப்பட்ட உடைமைகள் மற்றும் பொது
சொத்துக்களை கவனித்துக் ெ	காள்வது மதிப்புகள் என்று
அழைக்கப்படுகிறது.	
[அ] உடல்	[ஆ] மன
[இ] சமூக	[ஈ] பொருள்
2 means feeling of pity for	the suffering of others.
[a] Compassion	[b] Forgiveness
[c] Honesty	[d] Courage
என்பது மற்றவர்களின் த	<sub>பி</sub> ன்பங்களுக்காக பரிதாபப்படுவதாகும்.
[அ] இரக்கம்	[ஆ] மன்னிப்பு
[இ] நேர்மை	[ஈ] தைரியம்
3 is the householder's stag	e in the life of a Hindu.
[a] Brahmacharya	[b] Grihastha
[c] Vanaprastha	[d] Sanyasa

	20 am. (g. 10. g)	aints and requirements of mobile network.	15. a) Explain the special constr
[இ] வனப்பிரஸ்தா  4. Who is the founder of Buddhism?  [a] Muhammad  [c] Gandhiji  புத்த மதத்தை நிறுவியர் யார்?  [அ] முகம்மது  [இ] காந்திஜி  5 is a government of the people, by the  [a] Secularism  [c] Democracy  — என்பது மக்களால், மக்களுக்காக கூடியின்மை  [அ] மதச்சார்பின்மை  [இ] ஜனநாயகம்  6. There are fundamental rights in our	[b] Socialism [d] Gender Justice அமைக்கப்பட்ட அரசாங்கமாகும். [ஆ] பொது உடைமை [ஈ] பாலின நீதி constitutions.	இற்ற பொறுப்புணர்ச்சி  [இ] திறமை  9. Which of the following is the traditional  [a] Nuclear family  [c] Large Joint family  பின்வருவனவற்றில் பாரம்பரிய இந்திய  [அ] தனிக்குடும்பம்  [இ] பெரிய கூட்டுக்குடும்பம்  10 helps us to know the current affa  [a] Peer groups  [c] Family  நடப்பு விவகாரங்களை அறிய ந  [அ] நட்பு வட்டங்கள்  [இ] குடும்பம்  SECTION -  Answer ALL the	[b] Extended family   [d] All of the above   குடும்ப வகை எது?   [ஆ] நீட்டிக்கப்பட்ட குடும்பம்   [ஈ] அனைத்தும் airs.   [b] Media   [d] Society   மக்கு உதவுகிறது.   [ஆ] ஊடகங்கள்   [ஈ] சமூகம்
[a] five [c] seven நம் அரசியலமைப்புகளில் அடிப்பக் [அ] ஐந்து [இ] ஏழு 7. The term commitment implies [a] Dependability [c] Loyalty அர்ப்பணிப்பு என்ற சொல் ஐ கு [அ] சார்புநிலை [இ] விசுவாசம் 8 is described as an account-giving [a] Accountability [c] Competence	[b] six [d] eight ட உரிமைகள் உள்ளன. [ஆ] ஆறு [ஈ] எட்டு [b] Caring [d] All the above	Answer ALL the  11. a) What are the classification of values அ) மதிப்புகளின் வகைபாடுகள் யாவை [OR]  b) What is self discipline? Explain. ஆ) சுய ஒழுக்கம் என்றால் என்ன? விள  12. a) Explain the noble eight fold path in I அ) புத்த மதத்தில் உன்னதமான எட்டு [OR]  b) What are the main values of Sikhism ஆ) சீக்கிய மதத்தின் முக்கிய மதிப்புகள்  13. a) Explain about democracy. அ) ஜனநாயகம் பற்றி விளக்குக. [OR] 3	? ரக்குக. Buddhism. மடங்கு பாதையை விளக்குக. ?

#### [OR]

b) Comment on structure of M-Commerce.

## SECTION - C

 $[3 \times 10 = 30]$ 

# Answer Any THREE Questions.

- 16. Discuss about fixed assignment schemes.
- 7. Explain the architecture of TCP/IP.
- 8. Explain GSM protocol architecture and connection establishment.
- 9. Write about vehicular area network.
- 0. Compare the features of any three mobile OS in detail.



Programme: B.Sc. IT

# G.T.N. ARTS COLLEGE (AUTONOMOUS) **DINDIGUL - 624005**

(Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade)

# **END SEMESTER EXAMINATION – NOVEMBER 2021**

Date: 09.02.2022

Course Code: 17UITE51 Course Title: Mobile Computing	Time: 10 am. to 1 pm. Max. Marks:75
SECTION	-A [10 X 1 = 10]
Answer ALL th	e Questions.
Choose the Co	
<ol> <li>Accessing mobile network and devices any time is denoted as</li> </ol>	from anywhere at
[a] Uniqueness	o] Ubiquity
[c] Accessibility [d	d] Ad-Hoc
2. MACA stands for	
[a] Media Access Control Adaption	on .
[b] Multiple Access Control Addr	ess
[c] Multiple Access Collision Avo	pidance
[d] Media Access Control Avoida	nce
3. Path taken by encapsulated packets is	called as
[a] Forwarding	[b] Tunnel
[c] Address	[d] None of the above

4 Which one of the following is no	ot related to mobile IP terminology?	9. Which one of the following is mobile OS?				
[a] Mobile Node	[b] Desktop	[a] Unix	[b] Linux			
[c] Tunnel	[d] Care of Address	[c] Mac OS	[d] Blackberry OS			
technique enables a when one user moves from one co	call to proceed uninterrupted ell to another.	10. WAP stands for  [a] Window Adapter Protocol [b] Window Application Pro				
[a] Call request	[b] Call forwarding	[c] Wireless Application Protocol	[d] Wireless Adaption Protocol			
[c] Call move forwarding	[d] Cell forwarding	SECTION – B	$[5 \times 7 = 35]$			
6,, and	are the three parts of GSM network.	Answer ALL the Questi	ions			
[a] Radio sub system, Base su	ub system, Network switching sub system	11. a) Compare wired and wireless mobile	e networks.			
system [c] Reserve Subnet System, B. sub system	o sub system, network switching sub ase subnet system, network switching b system, Network station single system	[OR] b) Write the characteristics of mobile computing.  12. a) Narrate the features of mobile IP.				
7 is the application of	Ad-Hoc network in crisis	(OR	-			
management.		b) Differentiate tunneling and encaps				
[a] Street representation		13. a) Describe the organization of cellula	r network.			
[b] Identification of fighter pl	ane	[OR]				
[c] Natural disaster		b) Explain the features and services of GSM.				
	doctor through video conference.	14. a) Write about the applications of Ad-Hoc network.				
3. Expand VNET  [a] Value Added Network  [c] Vehicular Network	[b] Vital Area Network  [d] Virus Network	b) Discuss about proactive routing pro				
	2	3	•			

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Reg. No:

#### SECTION - C

 $[3 \times 10 = 30]$ 

#### Answer Any THREE Questions.

- 16. Explain about the criteria for the S-boxes in DES design criteria.
- 17. Describe about the overall AES structure in AES cipher.
- 18. Write about the one way authentication in authentication protocols.
- 19. Discuss about (i) Elements of MIME,
  - (ii) MIME content Types.
- 20. Explain the following malicious program
  - (i) Backdoor, (ii) Trojan Horses.

# G.T.N. ARTS COLLEGE (AUTONOMOUS) **DINDIGUL - 624005**

Reg. No:

(Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade)

# **END SEMESTER EXAMINATION NOVEMBER 2021**

Programme: B.Sc. IT Course Code: 17UITE52

Time: 10 am. to 1 pm. Course Title: Cryptography and Network

**Security** 

Max. Marks: 75

Date: 09.02.2022

SEC	TION	I - A
		-P

 $[10 \times 1 = 10]$ 

#### Answer ALL the Questions.

Choose	the Correct Answer.
1 is a process to detect	, prevent or recover from a security attack.
[a] Security	[b] Security mechanism
[c] Security attack	[d] Security service
2 is used to produce a	ciphertext block of equal length.
[a] Cipher	[b] Streamchiphers
[c] Blockcipher	[d] Feistel Cipher
3. The simplest mode of operation	on in block cipher is
[a] CBC	[b] EBC
[c] CFB	[d] OFB
4. The key size of AES has	bits.
[a] 256	[b] 16
[c] 4	[d] 8

5. The mechanism use	d to verify the integrity of a message is	SPG
[a] Hash function		SECTION -B (5 X 7
[c] Decryption	[d] Message authentication	Answer ALL the Questions.
6. The is an NI	ST standard that uses SHA.	11. a) Discuss about (i) Data confidentiality in security services
[a] DSS [c] DDS	[b] Authentication [d] Encryption	(ii) Authentication  [OR]  b) Write about transposition techniques.
	ation of key management capabilities.	
[a] RFC2401	[b] RFC2402	12. a) List the advantages of CTR Mode.
[c] RFC2406	[d] RFC2408	[OR]
8 provides secu	irity services between TCP and applications that use	b) What are the requirements of public key cryptography.
them. [a] Malicious soft [c] Worm	[b] SSL/TCS [d] SSLConnection oftware that can infect other programs by modifying ware [b] Virus [d] DOS ateway is called as	13. a) Describe (i) Form of hash function,  (ii) Requirements of hash function.  [OR]  b) Write short note on (i) Properties of digital signature.  (ii) Requirements of digital signature.  14. a) Narrate the summary of PGP services.  [OR]
[a] Proxy server	[b] Server	b) Write about the parameters in SSL session state.
[c] Firewall	[d] Circuit level gateway	15. a) Explain the characteristics of firewalls.  [OR]
		b) List the steps in digital immune system operation.

- 15. a) Write short notes on biodiversity at national level.
  - அ) தேசிய அளவிலான பல்லுயிர்ப்பெருக்கம் குறித்து சிறுகுறிப்பு எழுதுக.

VIIZMOL VIT THE GREATONAS

#### [OR]

- b) Comment on in situ conservation of biodiversity.
- ஆ) உள்பராமரிப்பு உத்தி மூலம் பல்லுயிர்ப்பெருக்க பாதுகாப்பு பற்றி விளக்குக.

## SECTION - C

 $[3 \times 10 = 30]$ 

#### Answer Any THREE Questions.

- 16. Discuss in detail about the components of environment. கூற்றுச்சூழலின் அங்கங்கள் குறித்து விரிவாக விவாதிக்கவும்.
- 17. Describe the various types of ecological pyramids. வெவ்வேறு வகையான சூழலியல் பிரமிடுகளை விவரிக்கவும்.
- 18. Write an essay on non-conventional energy resources with example. மரபு சாராஆற்றல் வளங்கள் பற்றி எடுத்துக்காட்டுடன் ஒரு கட்டுரை எழுதுக.
- 19. Explain the causes and consequences of air pollution. காற்று மாசுபடுதலின் காரணிகளையும் அவற்றின் பின்விளைவுகளையும் விளக்குக.
- 20. Give an elaborate account of values of biodiversity. பல்லுயிர்ப்பெருக்கத்தின் மதிப்புகள் பற்றி விரிவான தொகுப்பு தருக.

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# G.T.N. ARTS COLLEGE (AUTONOMOUS)

#### **DINDIGUL - 624 005**

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(Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade)

## **END SEMESTER EXAMINATIONS – NOVEMBER 2021**

Programme: All UG Final Years

Course Code: 17UESV51/19UESV51

Course Title: Environmental Science

Date: 03.02.2022

Time: 10 am - 1 pm

Max. Marks: 75

#### SECTION - A

 $[10 \times 1 = 10]$ 

DODOUNT USDEL FOR

Answer ALL the Questions. Choose the Correct Answer.

Choose the C	JULICUL AUSWELL		
1. Ozone layer is found in lay	er of atmosphere.		
[a] Thermosphere	[b] Troposphere		
[c] Stratosphere	[d] Exosphere		
வளிமண்டலத்தின் அடுக்கில்	ஒசோன் படலம் காணப்படுகிறது.		
[அ] அயனமண்டலம்	[ஆ] அடிவளிமண்டலம்		
[இ] மீவளிமண்டலம்	[ஈ] புறவளிமண்டலம்		
2. Which one of the following is NO	Γ a greenhouse gas?		
[a] Methane	[b] Hydrogen		
[c] Carbon-di-oxide [d] Nitrogen dioxide			
பின்வருவனவற்றுள் எது பசுமை இ	ல்லவாயு அல்ல?		
[அ] மீத்தேன்	[ஆ] ஹைட்ரஜன்		
[இ] கார்பன்டை ஆக்சைடு	[ஈ] நைட்ரஜன் டை ஆக்சைடு		
3 is an example for primary consumer.			
[a] green plants	[b] lion		
[c] fungi	[d] elephant		
முதல்நிலை நுகர்வோருக்கு	எடுத்துக்காட்டாகும்.		
[அ] பச்சைத்தாவரங்கள்	[ஆ] சிங்கம்		
[இ] பூஞ்சை	[ஈ] யானை		

4. The largest ecosystem on the earth is		இந்தியாவிலுள்ள உயிர்ப்பன்மய சிறப்ப	பிடத்திற்கு எடுத்த	ுக்காட்டாகும்.
[a] marine ecosystem	[b] forest ecosystem	[அ] கிழக்குதொடர்ச்சி மலை	[ஆ] மேற்குதொடர்ச்	
[c] desert ecosystem	[d] agro ecosystem	[இ] தார் பாலைவனம்	[ஈ] இந்தியப்பெருங்க	<b>கடல்</b>
பூ <b>மியிலுள்ள மிகப்பெரிய சூ</b> ழலியல் மன்	πடலம்	10. Nilgiris is a		
[அ] கடல் சூழலியல் மண்டலம்	[ஆ] காற்றுச் சூழலியல் மண்டலம்	[a] national park	[b] sanctuary	
[இ] பாலைவனச் சூழலியல் மண்டல	ம் [ஈ] வேளாண் சூழலியல் மண்டலம்	[c] zoological park	[d] biosphere rese	rve
5 is an example for renewable e	energy source.	நீலகிரி ஒரு		
[a] solar energy	[b] fossil fuels	[அ] தேசியப் பூங்கா	[ஆ] சரணாலயம்	
[c] coal	[d] natural gas	[இ] விலங்கியல் பூங்கா	[ஈ] உயிர்வளச் செ	-ழுமைப் பகுதி
புதுப்பிக்கக்கூடிய ஆற்றல் வளங்களுக்கு	5 எடுத்துக்காட்டாகும்.			
[அ] சூரிய ஆற்றல்	[ஆ] படிம எரிபொருட்கள்	SEC	TION – B	$[5 \times 7 = 35]$
[இ] நிலக்கரி	[ஈ] இயற்கை எரிவாயு	Answer AL	L the Questions.	
6 is released from tanneric	es.	11. a) Give an account of lithosphere	e.	
[a] Mercury	[b] Nickel	அ) நிலமண்டலம் பற்றி ஒரு தொகு		
[c] Chromium	[d] Selenium		[OR]	
தோல் தொழிற்சாலையிலிருந்து வெளிே	யற்றப்படுவது•	b) Comment on acid rain.	[]	
[அ] பாதரசம்	[ஆ] நிக்கல்	ஆ) அயிலமழை பற்றி விளக்குக.		
[இ] குரோமியம்	[ஈ] செலேனியம்			
7. is NOT the use of forest resource	s.	12. a) Enlist the functions of an eco		
[a] production of oxygen	[b] forest fire	அ) சூழலியல் மண்டலத்தின் வேல		
[c] soil conservation	[d] wildlife habitat		[OR]	
காட்டுவளங்களின் பயன் அல்ல		b) Write briefly about food web		
 [அ] ஆக்சிஜன் உற்பத்தி	[ஆ] காட்டுத்தீ	ஆ) உணவுவலை பற்றி சுருக்கமா	க எழுதுக.	
[இ] மண் பாதுகாப்பு	[ஈ] வன உயிரின வாழிடம்	13. a) Demonstrate the convention	al energy resources.	,
8. The largest noise a man can hear wit	hout much discomfort is about	அ) மரபுசார்ந்த ஆற்றல் வளங்கன		
[a]180 dB	[b]120 dB	<b>3</b> /	[OR]	
2 3	[d] 80 dB	b) Write an account of liquid v	• -	
[c] 60 dB	ல் கேட்கக்கூடிய ஒலியின்அதிக அளவு	ஆ) திரவக்கழிவுகள் பற்றி தொ <u>ர</u>	கத்து எழுதுக.	
அளசளகரியமில்லாமல் ஒரு மண்றணாக	10 00/20/2/24 J			
• [அ] 180 dB	[ஆ] 120 dB	14. a) Highlight the importance of	f mineral resources.	
	[m] 80 dB	அ) கனிமவளங்களின் முக்கியத்	துவததை எடுத்துவர்க்க.	
[ஆ] 60 dB 9 is an example for biodiversity			[OR]	
	[b] western ghats	b) Write an account of sustain	able development.	
[a] eastern ghats	[d] Indian ocean	ஆ) நீடித்த வளர்ச்சி குறித்து ெ	<u> நாகுத்து</u> எழுதுக்	7
[c] Thar desert			-3-	• ,
-	2-			

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.N. ARTS COLL	EGE (	AUTONOMO	US)
DINDIGUL - 6 (Affiliated to Madurai I (Accredited by NAAC EMESTER EXAMINA	Kamaraj Cwith 'B	University) ' Grade)	R 2021
c. CS/IT/BCA.		Date: 10.02.2	
CAS51/17UCSS51/17U antitative Aptitude	ITS51	Time: 10 am. Max. Marks	-
SECTION – A		[10 X	1 = 10]
Answer ALL the (	Question	S.	
Choose the Correc	t Answe	er.	
63, & 140 is	<u>.</u> .		
	[b] 7	,	,
	[d] 21		
tion of 3.004 is	·		
	[b] $\frac{701}{250}$		
	[d] $\frac{851}{3250}$	_	

,	60	1 4	• (	
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	V		7	
Z	PH GOO	WIT	2051	13
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# G.T.

## **END SE**

Programme: B.Sc Course Code: 17U

Course Title: Qua

- 1. The HCF of 42, 6
  - [a] 8
  - [c] 6
- 2. The Vulgar fracti
  - [a]  $\frac{741}{250}$
  - [c]  $\frac{751}{250}$
- 3. The average of first 40 natural numbers is \_\_\_\_\_.
  - [a] 20

[b] 19.5

[c] 21

[d] 20.5

Answer ALL the Questions.

11.a) Find the LCM of 16, 24, 35& 54.

[OR]

b) Evaluate i) 35 ÷ 0.07 ii) 2.5 ÷ 0.0005 iii) 136.09 ÷ 43.9

12. a) If  $\sqrt{841} = 29$  then find the value of  $\sqrt{841} + \sqrt{8.41} + \sqrt{0.0841}$  $+\sqrt{0.000841}$ 

#### [OR]

- b) The average of five consecutive number A, B, C, D, & E is 48. What is the product of A & E.
- 13. a) The difference of two numbers is 1660. If 7.5% of the number is 12.5% of the other number. Find the two numbers.

#### [OR]

- b) A television manufacturer earns 20% profit by selling each TV for Rs. 14,400. If the production cost is increased by 15% what should be the new selling price of a set so as to gain 15%.
- 14. a) A can do a piece of work in 7 days of 9 hours each and B can do it in 6 days of 7 hours each. How long will they take to do it working together 8 hours a day.

#### [OR]

b) i) A man travelled from the village to the post office at the rate of 25 kmph and walked back at the rate of 4 kmph. If the whole journey took 5 hrs 48 minutes, find the distance of the post – office from the village.

--2--

4. The square root of 0.0009 is \_ [b] 0.03 [a] 0.003 [d] 0.0003 [c] 0.3 5. The decimal value of 28 % is \_\_\_\_\_. [b] 0.28 [a] 28 [d] 2.5 [c] 0.028 6. If 10% of x is equal to 20% of y then x:y is \_\_\_\_\_. [b] 3:2 [a] 2:1 [d] 5:1 [c] 3:1 7. A train travels 82.6 km/Hr. How many kilometres will it travel in 15 minutes? [b] 20.65 [a] 20.55

[d] 20.45

[c] 20.75

8. If A & B together do a work in 4 days. If A alone can do it in 12 days the

B can do the work in \_\_\_\_\_ days.

[b] 10 [a] 8

[d] 6 [c] 12

9. The Compound interest of Rs. 7,500 at 4% per annum for 2 years

compounded annually is \_\_\_\_\_

[b] 8,000 [a] 8,500

[d] 8,200 [c] 7,500

10. The volume of a cuboid with 16m long, 14m breadth and 7m height is

[a]  $1568 \text{ m}^3$ 

[b] 1586m3

 $[c] 1865m^3$ 

 $[d] 6851m^3$ 

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Reg. No:						



**DINDIGUL - 624 005** 

(Affiliated to Madurai Kamaraj University)||(Accredited by NAAC with 'B' Grade)

#### **END SEMESTER EXAMINATION - NOVEMBER 2021**

Programme: B.Com.(CA)

Date: 04.02.2022

Course Code: 17CINF51

Time: 10 am. to 1 pm.

Course Title: Open Source Programming With

Max Marks:75

Linux, Apache, MySQL and PHP

(LAMP)

SECTION - A

 $[5 \times 2 = 10]$ 

#### Answer ALL the Questions.

- 1. Write the syntax of PHP.
- Name any two server side scripting languages.
- WAMP stands for
- Write two control loops in PHP?
- What is phpmyadmin?

SECTION - B

[5 X 7 = 35]

Answer ALL the Questions. 6. a) Describe Web server and Webhosting

[OR]

- b) Differentiate between GET and POST Methods.
- 7. a) Explain CSS list with examples.

[OR]

b) Describe frameset and frames in HTML.

8. a) Explain operators in JavaScript.

[OR]

- b) How do you declare a variable in Java Script?
- 9. a) Differentiate FOR AND FOREACH in PHP. [OR]
  - b) Describe various operators used in PHP.
- 10. a) Explain DDL Queries in MySQL.

[OR]

b) Explain DCL Queries in MySQl

SECTION - C

 $[3 \times 10 = 30]$ 

#### Answer Any THREE Questions.

- 11. Explain about the role of a Web Server
- 12. Design a job application form website using HTML.
- 13. Explain loops, break and continue statements in javascript.
- 14. Explain about different types of arrays used in PHP with examples.
- 15. List different PHP functions used for MySQL operations.

# G.T.N. ARTS COLLEGE (Autonomous) Dindigul

(Affiliated to Madurai Kamaraj University) (Accredited with 'B' Grade by NAAC)



# DEPARTMENT OF INFORMATION TECHNOLOGY

EXTERNAL QUESTION PAPER

EVEN-2021-2022

Reg. No.:			. 1000000000000000000000000000000000000	Actual and of the Continue		



(Affiliated to Madurai Kamaraj University || Accredited with 'B' Grade by NAAC)

#### **END SEMESTER EXAMINATION - APRIL - 2022**

#### (CHOICE BASED CREDIT SYSTEM - OUTCOME BASED EDUCATION)

Programme: B.Sc. Information Technology

Course Code: 20UITC11

Course Title: Introduction to Programming

Date: 08.07.2022

Time: 2:00 PM - 5:00 PM

Q. No.	SECTION - A Answer ALL Q	(10 * 1 = 10 Marks) Puestions	CO(s)	Level
1.	is the default file system in Linu	x.	CO1	K1
	1.etx	2.ext2		
	3.etx3	4.mimix		
2.	A Process is an instance of program.	•	CO1	K2
	1.waiting	2.executing		
	3.terminated	4.halted		
3.	The scanf function is used to		CO2	K1
	1.Input a set of values	2.Print a set of values		
	3.Do Mathematical operations	4.Take logical decisions		
4.	Select the invalid data type from the following.		CO2	K2
	1.integer	2.int		
	3.float	4.string		
5.	The process of allocating memory at compile time	ne is known as	CO3	K1
	1.Static Memory allocation	2.Dynamic Memory allocation		
	3.Memory Management	4.Pointers		
6.	Recursion is similar to		CO3	K2
	1.Switch Case	2.If-else		
	3.Loop	4.If		
7.	Keyword is used to define the	structure.	CO4	Kl
	1.int	2.union		
	3.float	4.struct		
8.	data types are accepted while declaring	ng bit-fields.	CO4	K2
	1.char	2.float		
*	3 double	4.int		

		is an incorrect syntax for pointer to structure.  2.(*mystruct).b=10;	$CO^2$	K,
	9.			1
		1.mystruct->b=10; 4.*mystruct.b=10;		- Annich et Remont
		3 (*mystruct.b)=10  If there is any error while opening a file, fopen will return  2.EOF	$CO^2$	b.
	10.			k <sub>2</sub>
		1. Nothing 4. Depends on compiler		STOCK OF THE STOCK
		3.NULL SECTION - B $(5 * 4 = 20 \text{ Marks})$	Co	
	Q. No.	SECTION - B  Answer ALL Questions	CO(3)	4.
			COI	Leve
	11. (a)	Retell about linux file permissions.  [OR]	001	K;
	<b>(b)</b>	Tell the features of pipe in linux with example.	CO <sub>1</sub>	n de la companya de l
		Discuss about the use of ternary or conditional operator with example.	CO <sub>2</sub>	K <sub>1</sub>
	12. (a)	[OR]	-04	Κį
	(b)	Discuss about break and continue statement in C with example.	CO <sub>2</sub>	<b>V</b> .
,	13. (a)	Define an array? Prepare how to initialize and declare one dimensional array and two	CO <sub>3</sub>	Κį
		dimensional array? Give Examples.	003	K3
	(h) r	[OR]		
		Develop a program to prepare student mark list using one dimensional array.	CO <sub>3</sub>	K3
	14. (a) T	race the usage of bit fields in a structure declaration with example.	CO4	
	(b) Di	[OR]	, 504	K2
15	,	scuss how to copy and compare structure variables.	CO4	מי
	WI	ite the rules of pointer operations.		K2
(	b) Repo	ort the guidelines to you Co.	CO <sub>5</sub>	K3
•	•	ort the guidelines to use fprintf() and fscanf() functions in C language.	005	
Q. No	0.	SECTION - C	CO <sub>5</sub>	K3
1.6		Answer ANY THREE $\alpha$ (3 * 10 = 30 Marks)	CO(s)	к.
16.	Recall	linux file system in detail	00(3)	Level
17.	Review	about formatted Innut	001	
18.	Report a	about formatted Input/output function with suitable examples.	CO1	Kl
19.	Def	bout recursive function with sample code.	CO <sub>2</sub>	K2
		Moli, Summariza I.	CO3	K3
20.	Write a ca	ase study of "How sequential access file is differing from Random Access		
	file".	sequential access file is differing s	CO4	K2
		From Random Access	CO5	K3

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Reg. No.:					



(Affiliated to Madurai Kamaraj University || Accredited with 'B' Grade by NAAC)

#### **END SEMESTER EXAMINATION - APRIL - 2022**

#### (CHOICE BASED CREDIT SYSTEM - OUTCOME BASED EDUCATION)

Programme: B.Sc. Information Technology

Date: 08.07.2022

Course Code: 20UITC21

Time: 10:00 AM - 1:00 PM

Course Title: Programming in C#.NET

Q. No.	SECTION - A Answer ALL Q	(10 * 1 = 10 Marks) Questions	CO(s)	K - Level
1.	Boxing converts a value type on the stack to an	on the heap.	CO1	K2
	1.Bool type	2.Instance type		
	3.Class type	4.Object		
2.	The default access specifier of a class member f	function is	CO1	K1
	1.Private	2.Public		
	3.Protected	4.Internal		
3.	The C# provides special methods known as members.	methods to provide access to data	CO2	K2
	1.Loop	2.Functions		
	3.Methods	4.Accessor		
4.	parameters are used to pass results back	to the calling method	CO2	K1
	1.Input	2.Reference		
	3.Value	4.Output		
5.	Duck typing is implemented by using	_keyword.	CO3	K2
	1.dynamic	2.object		
	3.ref	4.base		
6.	C# treats the multiple catch statements like cases	s in a statement.	CO3	K1
	1.If	2.Switch		
	3.For	4.While		
7.	Managed methods will be marked as	in MSIL code	CO4	K2
	1.mscorjit	2.cil		
	3.dgclr	4.lib		
8.	A variable which is declared inside a method is	called avariable	CO4	K1
	1.Local	2.Private		•
	3.Static	4.Serial		
9.	Find any errors in the following BankAccount co	onstructor: Public int BankAccount() {	CO5	Kl

	· ·		
	balance = 0; }		
	1.Name 4.No errors	CO5	K2
	3. Return type		
10.	Polymorphism occurs when the methods of the child class  2.Maintain the same return type  and arguments as the parent  methods but maintain the  implementation  class, but implement it  differently		
	3 Have different return times and 4.Are Virtual		
	arguments than the parent class	CO(s)	K -
Q. No.	SECTION - B $(5 * 4 = 20 \text{ Marks})$	CO(s)	Leve
	Answer ALL Questions	CO1	
11. (a)	Define Color Dialog Boxesin C#.	CO1	K1
	[OR]	CO1	K1
(b)	List the functions and its types of CTS.		
12. (a)	Explain in detail about arrays in c#.	CO2	K2
(b)	[OR]	CO2	K2
(b)	Describe how Encapsulation is implemented by using access specifiers.		
13. (a)	Illustrate a simple program using Interface.	CO3	K2
(b)	[OR] Report access modifiers in c#.	CO3	K2
14. (a)	Interpret a login form using textbox, label and button in c# Windows application.  [OR]	CO4	K3
(b)	Infer event handler to display message box	004	1//0
15. (a)	Prepare how to create a blank file in the disk if the same file already exists.	CO4	K3
	the ancaty exists.	CO5	K3
<b>(</b> b)	[OR]		
(b)	Write a program in C# Sharp to create and write some line of text into a file which does not contain a given string in a line	CO5	K3
Q. No.	SECTION - C		
	Answer ANY THREE Once $(3 * 10 = 30 \text{ Marks})$	CO(s)	K -
16.	identify how CLR hosts an application on NET platform, P		Leve
17.	Discuss how to accept two strings and perform the following operations:	CO1	K1
18.	Explain interface class with example.	CO2	K2
19.	Test Winforms Tablelayoutpanel to align wing	CO3	K2
20.	Test Winforms Tablelayoutpanel to align winform controls in rows and columns.  Write a program in C# Sharp to read a specific line from a file.		K3
	a specific line from a file.	CO4	
	本安全市场中央市场市场市场市场市场市场市场市场市场市场市场市场市场市场市场市场市场市场	CO5	K3
	*************************************		

Reg. No:		



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# **END SEMESTER EXAMINATION – APRIL 2022**

# (CHOICE BASED CREDIT SYSTEM - UNDER OUTCOME BASED EDUCATION) Date: 12.07.2022

Programme: B.Sc., Computer Science, IT & B.C.A

Course Code: 20UMAA22

Course Title: Operation Research

Time: 10am-1pm Max. Marks: 60

C	ourse Title. Operation	i.	K –
	Section – A $[10 \times 1 = 10 \text{ Marks}]$	CO(s)	K – Level
Qn.	Answer ALL the Questions		Долог
No.	1 an anally used for _:	CO1	K1
1.			
	[a] scientific approach [d] variables		
	[c] solution		
2.	Decision variables in an OK moder as	CO1	K1
	[a] parameters		
	[b] controllable		
	[c] uncontrollable		
	r 11 - amotants	CO2	K1
3.	Feasible solution satisfies	002	
	- 1 and tho inte		
	[a] only constraints [b] only non-negative restriction		
	[c] both [a] and [b] [d] [a],[b] and optimum solution Which one of the following is true for any constraints of the LPP?  [b] a restion with = sign		
4.	Which one of the following is true for any constant	CO2	K2
٦.	[a] an equation with = sign	CO2	
	[b] inequality with ≥ sign		
	[c] inequality with $\leq$ sign		
	[d] all the above		
-	[u] an the above	CO3	K1
5.	[d] all the above  The role of artificial variables in the simplex method is	COS	
	[a]to aid in finding an initial solution		
	[a]to aid in finding an initial solution  [b] to find optimal dual prices in the final simplex table  [c.implex method]		
	[0] to find optimal data i		
	[c] to start phases of simplex method [d]all of the above  If there exist a non-basic variable whose relative profit is zero in the optimal table, then the nature of the solution is		
6	[u]an of the above	$CO^2$	K2
	If there exist a non-basic variable whose table, then the nature of the solution is	CO3	112
	-		
	[a] Unbounded		
	[b] Infeasible		474
	<ul> <li>[c] Unique optimal</li> <li>[d] Alternate solution</li> <li>If we were to use opportunity cost value for an unused cell to test optimality, it should be</li> </ul>	CO4	K1
	d Alternate solution		
	7. If we were to use opportunity cost value for		
	it should be		

	[a] equal to zero		
	[b] most negative number		
v	[c] most positive number		
	[d] all the above	is	
8.	[d] all the above  The method of finding an initial solution based upon opportunity costs called		
	[a] Vogel's approximation	CO4	K2
	[b] the northwest corner rule		
	[c] Hungarian method		
9.	The number of person is not equal to the number of jobs then the designation		
,	problem is known as	CO5	K1
	[a] unbalanced AP [b] balanced AP		
	[c] impossible AP		
10	[d] degenerate AP The method used for solving an assignment problem is known as	•	
10.	[a] MODI method	005	T/O
	[b] Hungarian method [c] Queuing method	CO5	K2
	[d] Reduced matrix method		
	[u] Reduced III		
0-	Section – B $[5 \times 4 = 20 \text{ Marks}]$	CO(s)	K-
Qn. No.	Section – B $[5 \times 4 = 20 \text{ Marks}]$ Answer ALL the Questions	CO(s)	Level
	Section – B Answer ALL the Questions Write any three definition of Operations Research.  [OR]  [5 x $4 = 20$ Marks]	CO(s)	
No. 11.a)	Section – B [5 x $4 = 20$ Marks]  Answer ALL the Questions  Write any three definition of Operations Research.	CO1	Level K2
No.	Section – B Answer ALL the Questions Write any three definition of Operations Research.  [OR]  [5 x $4 = 20$ Marks]	, ,	Level
No. 11.a)	Section – B Answer ALL the Questions Write any three definition of Operations Research.  [OR]  [5 x $4 = 20$ Marks]	CO1	Level K2
No. 11.a)	Section – B Answer ALL the Questions  Write any three definition of Operations Research.  [OR] Describe the validation of the mathematical model.  A person requires 15, 13, 14 units of chemicals A, B, C respectively for his mango grove. These chemicals are available in liquid product in jars and dry products in bags. The liquid product contains 6 units of A, 2 units of B and 2 units of C per jar and the dry product contains 2 units of A, 3 units of B and 4 units of C per bag. If the liquid product costs Rs. 8 per jar and the dry product costs Rs. 3 per bag, how many of each should he purchase in order to minimize the cost and meet the requirements? Formulate the LPP.  [OR] Explain standard form and canonical of LPP. Using simplex method to solve the LPP.  Maximize $z = 30x_1 + 20x_2$ subject to $10x_1 + 8x_2 \le 800$	CO1	Level K2 K2
No. 11.a) 11.b) 12.a)	Section – B Answer ALL the Questions  Write any three definition of Operations Research.  [OR]  Describe the validation of the mathematical model.  A person requires 15, 13, 14 units of chemicals A, B, C respectively for his mango grove. These chemicals are available in liquid product in jars and dry products in bags. The liquid product contains 6 units of A, 2 units of B and 2 units of C per jar and the dry product contains 2 units of A, 3 units of B and 4 units of C per bag. If the liquid product costs Rs. 8 per jar and the dry product costs Rs. 3 per bag, how many of each should he purchase in order to minimize the cost and meet the requirements? Formulate the LPP.  [OR]  Explain standard form and canonical of LPP.  Using simplex method to solve the LPP.  Maximize $z = 30x_1 + 20x_2$ , subject to	CO1 CO2 CO2	Level K2 K2 K2
No. 11.a) 11.b) 12.a)	Section – B  Answer ALL the Questions  Write any three definition of Operations Research.  [OR]  Describe the validation of the mathematical model.  A person requires 15, 13, 14 units of chemicals A, B, C respectively for his mango grove. These chemicals are available in liquid product in jars and dry products in bags. The liquid product contains 6 units of A, 2 units of B and 2 units of C per jar and the dry product contains 2 units of A, 3 units of B and 4 units of C per bag. If the liquid product costs Rs. 8 per jar and the dry product costs Rs. 3 per bag, how many of each should he purchase in order to minimize the cost and meet the requirements? Formulate the LPP.  [OR]  Explain standard form and canonical of LPP.  Using simplex method to solve the LPP.  Maximize $z = 30x_1 + 20x_2$ subject to $10x_1 + 8x_2 \le 800$ $x_1 \le 60$	CO1	Level K2 K2

Solve the following problem using simplex method. 13.b) $MaxZ = 5x_1 + 3x_2$  subject to constraints  $x_1 \leq 6$ ; K2 CO<sub>3</sub>  $x_2 \leq 4$ ;  $2x_1 + 3x_2 \le 18;$  $x_1, x_2 \ge 0.$ Find the basic feasible solution for the following TP using North west corner 14.a) rule: C D E Availability K2 CO<sub>4</sub> A 3 3 7 6 В 2 3 9 8 Requirement 4 7 3 14 [OR] 14.b) Using row minima method to obtain the initial basic feasible solution of the transportation problem Supply  $A_1$  $A_2$  $A_3$ K2 CO<sub>4</sub> 50 30 220 1  $P_1$ 3 45 170 90  $P_2$ 4 250 250 50  $P_3$ 2 4 2 Demand A company has three jobs to be done on three machines. Each job must be done on one and only machines. The cost of each job on each machine is 15.a) given in the following table. Given the job assignment, which will minimize the cost? K2 CO<sub>5</sub> C8 6 4 3 2 5 4 [OR] 15.b) Four different jobs can be done on four different machines. The matrix below gives cost in rupees of processing jobs i on machine j. How should the jobs be assigned to the various machines so that the total cost is minimized? How should the jobs be assigned to the various machines so that the total cost is K2 CO<sub>5</sub> minimized? M3M4 M2M16 11 7 5 J16 9 5 8 J<sub>2</sub> 7 10 7 4 J3 K-3  $[3 \times 10 = 30 \text{ Marks}]$ 8 4 CO(s) 10 J4 Level Section - C Qn. Answer ANY THREE Questions K2 CO<sub>1</sub>  $N_{0.}$ Discuss the applications of Operation Research. 16, Solve the following LPP using graphical method.  $MinZ = 7x_1 + 10x_2 + 20 \text{ subject to}$ K3 CO<sub>2</sub>  $x_1 + x_2 \le 6$  $x_1 + x_2 \ge 3$  $0 \le x_1 \le 4$  $0 \le x_2 \le 7$ 

18. Solve the LPP using Two phase method Maximize  $z = 5x_1 + 8x_2$  subject to

$$3x_1 + 2x_2 \ge 3$$

$$x_1 + 4x_2 \ge 4$$

$$x_1 + x_2 \le 5$$

$$x_1, x_2 \ge 0$$

19. Using Vogel's approximation method to solve the following transportation problem:

	$A_1$	$A_2$	$A_3$	Supply
$P_1$	2	7	4	5
$P_2$	3	3	1	8
$P_3$	5	4	7	7
P <sub>4</sub>	1	6	2 .	14
Demand	4	2	2	34

CO<sub>4</sub>

 $CO^3$ 

K3

 $K_3$ 

20. Given the cost matrix for travelling the cites A, B, C, D by a travelling salesman

		A	В	C	D
	A	00	46	16	40
	В	41	ω.	50	40
	C	82	32	80	60
	D	40	40	36	80

CO<sub>5</sub>

**K**3

Find the assignment schedule of the travelling sales man so as to minimize

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# Reg. No.: G.T.N. ARTS COLLEGE (AUTONOMOUS)

(Affiliated to Madurai Kamaraj University || Accredited with 'B' Grade by NAAC) END SEMESTER EXAMINATION - APRIL - 2022

(CHOICE BASED CREDIT SYSTEM - OUTCOME BASED EDUCATION) programme: B.Sc. Information Technology

Course Code: 20UITC31

Date: 07.07.2022

Time: 2:00 PM - 5:00 PM

Course Title: Database Management System Concepts

Q. No.		SECTION - A  Answer ALL Questions  (10 * 1 = 10 Mark	s) CO(s)	K - Level
1.	is one of the reasons for	r problems of data integrity.	CO1	K1
	1.Data redundancy	2.Security constraints	COI	Kı
	3.Data inconsistency	4.Data availability constraints		4
2.	A collection of interrelated file	es in a computer is a	CO1	K1
	1.Record	2.Database		
	3.Field	4.File manager		
3.	State the SQL statement to selet the value of the column "FirstN	ect all the records from a table named "Persons" where Name" is "Peter"	CO2	K2
	1.SELECT * FROM Persons WHERE FirstName='Peter';	2.SELECT all FROM Persons WHERE FirstName='Peter';		
	3.SELECT * FROM Persons WHERE FirstName<>'Peter';	4.SELECT * FROM Persons WHERE FirstName like 'Peter';		
4.	The selection condition of SEL	ECT operator is considered as	CO2	K1
	1.column expression 2.row expression			
	3.string expression	4.Boolean expression		
5.	A relation is in third normal for	m if it is in second normal form and	CO3	K2
J.		2.Dependent on an of the key		
	1.Dependent on part of the key	4. Has no transitive dependencies		
6.	3.Independent of the key		CO3	K1
0.		rived attributes in E-R model.  2.Dashed ellipse		
•	1.Doubled ellipse	4.Squared ellipse	£	
	3.Ellipse with attribute name underlined	,	CO4	K1
7.	The most fastest and costly form	of storage is named as		
	1.Main memory	2.Flash money		
	3.Cache	4.Optical storage		

8. T	The method of access which uses key transformation is known as	·	CO4	K <sub>1</sub>
	1.direct 2.hash			
	3.random 4.sequential			
9. ,	All lock information is managed by a which is responsib and policing the locks used by the transactions.	le for assigning	CO5	K2
	1.Scheduler 2.DBMS			
	3.Lock manager 4.Locking agent			
10.	If a transaction has obtained a lock, it can read but cannitem.	ot write on the	CO5	K1
	1.Shared mode 2.Exclusive mode			
	3.Read only mode 4.Write only mode	e		
Q. No.	SECTION - B Answer ALL Questions	5 * 4 = 20 Marks)	CO(s)	
11. (a)	Define and give an example for instances and schema.		CO1	Lev
	[OR]		CO1	K1
(b)	Locate the super key, candidate key and primary key in an E-R diag enterprise.	ram for the banking	CO1	K1
12. (a)	IODI		CO2	K3
(b)	Write a PLSQL program using Trigger for Insertion and Deletion in	a Database.	CO2	K3
13. (a)	Classify different types of Anomalies in relational databases.			
(b)	[OR] ldentify the problems caused by redundancy.	* .	CO3	K2
14. (a)	State the Buffer management in detail.		CO3	K2
(b)	(i)Differentiate between Static and Danie (ii)		CO4	Kl
15. (a)	(ii)List out the mechanisms to avoid collision during hashing.  Explain conflict serializability and view serializability.		CO4	Kl
(b)	why kecovery is needed? Explain in detail.		CO5	K2
Q. No.	SECTION - C		CO5	K2
16.	Answer ANY THREE Questions  State the additional operations in a lateral control of the state of	(3 * 10 = 30  Marks)	) CO(s)	K-
17.	entity set	Q Anta-	COl	KI
18.	Draw the E-R diagram for bank systems and Illustrate	onterprises with	CO2	K3
19.	(i)Illustrate indexing techniques and in	on and generalization	on CO3	K2
	(ii) Rewrite notes on Hashing.		CO4	K2

20.

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#### Reg. No.:

# G.T.N. ARTS COLLEGE (AUTONOMOUS)

(Affiliated to Madurai Kamaraj University || Accredited with 'B' Grade by NAAC)

# END SEMESTER EXAMINATION - APRIL - 2022

(CHOICE BASED CREDIT SYSTEM - OUTCOME BASED EDUCATION)

rogramme: B.Sc. Information Technology

ourse Code: 20UITC32

Date: 11.07.2022

ourse Title: Data Structure and Computer Algorithms

Time: 2:00 PM - 5:00 PM

No.		SECTION - A Answer ALL Questions	(10 * 1 = 10 Marks)	CO(s)	K - Level
1.	In general, the index of the f			CO1	K1
	1.0	21		7	
	3.2	4.1			
2.	is not a prin	mitive data structure.		CO1	K1
	1.Boolean	2.Integer			,
	3.Arrays	4.Character	rs		
3.	Tell the following infix exp (A+B^D)/(E-F)+G	ression into is equivalent Postfix e	xpression.	CO2,	K1
	1.(ABD^+EF-/G+)	2.(ABD+^I	EF-/G+)		
	3.(ABD^+EF/-G+)	4.(ABDEF-	+^/-G+)		
4.	On which element we perfo	orm insertion and deletion operation	n in stack?	CO2	K1
	1.Front	2.Top			
	3.Rear	4.Middle			
5.	are the disadva	ntages of normal binary tree traver	sal.	CO3	K2
	1. There are many pointers are null and thus useless	which 2.There is a efficient	no traversal which is		
	3.Complexity in implement	ting 4.Improper	traversal	e.	
6.	In binary search tree,order.	traversal would print the n	umbers in the ascending	CO3	K1
	1.Level-order traversal	2.pre-order	traversal		
	3.post-order traversal	4.in-order	traversal		
7.	is an advantage of	recursive approach that an interact	ive approach.	CO4	K2
	1.Consumes less memory	2.Less cod impleme	e and easy to nt		
	3.Consumes more memory	y 4.More coo	de has to be written.		

8.	is a characteristic often draws the line between what is feasible and what is	CO <sub>4</sub>	Kl
	impossible.  2.System evaluation		
	1.performance 4.reliability		
	2 madularity	CO <sub>5</sub>	
9.	Consider a complete graph G with 4 vertices. The graph G has spanning	CO3	K2
	trees.		
	1.15		
	3.16 4.13		
10.	The methods can be used to solve the knapsack problem is	CO <sub>5</sub>	K1
	1.Brute force algorithm 2.Recursion		
	3.Dynamic programming  4.Brute force ,Recursion , dynamic programming		
Q. No.	SECTION - B $(5 * 4 = 20 \text{ Marks})$	CO(s)	K-
11. (a)	Answer ALL Questions  Define data structures and its need.		Level
11. (u)		CO1	Kl
(b)	[OR] Recall how data structures are classified.		
12. (a)	Write a report on how stack can be implemented using Array and Linked list.	CO1	Kl
	[OD]	CO2	K2
(b)	Interpret the various operations of ADT.	G00	K2
13. (a)	Summarize the construction of Binary tree.	CO2	
(b)		CO3	K2
14. (a)	represent the recursive procedure of traversal method	CO3	K2
1 7. (a)	Examine the working principles of Searching Algorithm.		K3
(b)		CO4	No
15. (a)	Examine the main idea behind the Selection Sort.  Consider the following:	CO4	K3
	Consider the following instance of the Knapsack problem n3,m20,(p1,p2,p3)= (25,24,15), and (w1,w2,w3)=(18,15,10). Compute the feasily		K3
<i>(</i> 1.)	TEASIDIA COLL	CO5	
(b)	Let n=3 and (11,12,13)=(5,10,3). There are n!=6 possible ordering. Discover the orderings and their respective d values.		
	orderings and their respective d values.	CO5	K3
Q. No.			
16.	SECTION - C  Answer ANY THREE Quest  (3 * 10 = 30 Marks)	CO(s)	K.
17.	the operations of Array in decisions		Leve
	Distinguish between Stack and Queue.	CO1	KI
18.	Show the output when you apply Precord	CO2	K2
	Show the output when you apply Preorder, Inorder and Postorder traversal in the (A+B*C)+((D*E+L)*G).	CO3	K2
19.	Examine how perform	UU.	Enterprise transmission
20.	Examine how performance analysis taken place.  Compute the minimum.		KJ
	Compute the minimum cost spanning tree for the given graph using Kruskal's	CO4	K
	suc given graph using Kruskal's	CO5	N

Reg. No:					



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# **END SEMESTER EXAMINATION – APRIL 2022**

# (CHOICE BASED CREDIT SYSTEM - UNDER OUTCOME BASED EDUCATION)

Programme: B.Sc., CS & IT Course Code: 20UMAA33 Course Title: Numerical Methods

Date: 14.07.2022 Time: 2 pm – 5 pm Max. Marks: 60

Qn.	SECTION - A   [10 x 1 = 10]	CO(s)	$\mathbf{K} - \mathbf{k}$
No.	Answer ALL the Questions	CO(s)	Level
1.	Bolzano method is also called  [a] Iteration method [b] RegulaFalsi method	CO1	K1
2.	[c] Bisection method  A better and closer approximation to the root can be found by using an iterative process is called  [a] Newton-Raphson method  [b] Bisection method	CO1	K2
3.	[c]RegulaFalsi method [d] Iteration method A non-singular matrix $A$ in $n \times n$ matrix, then $AA^{-1}$ is	CO2	K1
4.	[a] $I$ [b] $A$ [c] $A^2$ [d] $A^3$ If the system of linear equation is inconsistent, then the system has	CO2	K2
5.	[a] trivial solution [c] infinitely many solution [d] no solution Which one of the following is a process of finding the most appropriate	CO3	K1
. 6.	[a] interpolation [c] interpolating function [d] interpolating polynomial [c] interpolating function [d] interpolating polynomial	CO3	K2
,	x(height)     100     150     200     250     300     350     400       x(distance)     10.63     13.03     15.04     16.81     18.42     19.90     21.27		
	What is the values of y when $x = 160 \text{ ft.}$ ?  [a] 13.46 [b] 16.82 [c] 20.00[d] 11.72  [a] 13.46 [b] 16.82 [c] 20.00[d] rule is	CO4	K1
7.	The order of an error in Trapezoida $[d]h$ $[a] h^2$ $[b] h^4$ $[c] h^3$ $[d]h$ While evaluating the definite integral by Trapezoidal rule, when the accuracy	CO4	K2
8.	While evaluating the definite integration of sub-intervals  [a] by taking large number of sub-intervals  [b] by taking small number of sub-intervals  [c] by taking infinite number of sub intervals  [d] both a & c		

		Calculate the maximum and minimum values of $y$ form the following table.	CO <sub>5</sub>	K <sub>1</sub>
		and minimum values of y lea	, .	
	9.	Calculate the maximum and $x$ $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	CO <sub>5</sub>	K <sub>2</sub>
	10.	In fourth order Kunge 12		-
		differential equation is  [a] linear or non-linear [b] linear only		
		[a] linear or non-linear d] quadratic only  [c] non-linear only  [5 $\times$ 4 = 20]		
		SECTION – B  Sections	CO(s)	K-
	Qn.	Answer ALL the Questions		Level
	No.	Can we find a real root of the equation $x^3 + x^2 - 1 = 0$ in the interval [0,1]	CO1	K2
	11.a)	Can we find a real root of the equation x		
	b)	by the method of iteration?  [OR]  Find the smallest positive root of $x^2 - \log_e x - 12 = 0$ by RegulaFalsi	CO1	K2
	U)	method	CO2	K2
]	(2.a)	Find the solution of the following system of equations using Gaussian elimination method. x + y + z = 9	002	17.2
		2x - 3y + 4z = 13		
		3x + 4y + 5z = 40		
	b)	[OR] Solve the following system of equations		
	-,	2x - y = 1.75;	CO2	K2
		x - 3y = -1 by Gauss-Jacobi method		
1	3.a)	Find the value of y from the following data at $x = 2.65$		
		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	CO3	K2
	b)	Using Lagrange's interpolation formula to find a polynomial from the following:		
		following:	000	
		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	CO3	K2
1	4.a)	Find $\frac{dy}{dx}$ and $\frac{d^2y}{dx^2}$ at $x = 51$ from the following data.		
		$\frac{dx}{dx^2}$ at $x = 31$ from the following data.		
		y 19.96 36.65 58.81 58.81 58.81	CO <sub>4</sub>	K2
	,	8 equal results of decimals divisity		
		Find $\int_0^2 \frac{dx}{x^2 + x + 1}$ to 3 places of decimals dividing the range of integration into 8 equal parts using Simpson's rule.	•,	
		into	$C_{O_4}$	K2
				K2

15.a)	Using Taylor's series method find y at $x = 1.1$ by solving $\frac{dy}{dx} = x^2 + y^2$ given that $y(1) = 2.3$ .	CO5	K2
b)	Given $y' = x^2 - y$ , $y(0) = 1$ . Find $y(0.1)$ using Runge-Kutta fourth order.  SECTION – C  [3 x 10 = 30]	CO5	K2 K-
Qn. No.	Answer Any THREE the Questions		Level
	Use the method of successive approximation to solve the real root of the	CO1	K3
16.	equation $\cos x = 3x - 1$ .	•	
17.	Solve the following system of equation using Gauss -Jordan method $2x + y + 4z = 12$ 8x - 3y + 2z = 20	CO2	К3
18.	$4x + 11y - z = 33$ The following data gives the melting point of an alloy of zinc and lead, $\theta$ the temperature and $x$ is the percentage of lead. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	CO3	K3
19.	Using Newton's interpolation $x = 84$ (i) $\theta$ when $x = 84$ (ii) $\theta$ when $x = 48$ (ii) $\theta$ when $\theta$ when $\theta$ when $\theta$ when $\theta$ when $\theta$ is a sum of $\theta$ when $\theta$ when $\theta$ is a sum of $\theta$ is a sum of $\theta$ when $\theta$ is a sum of $\theta$ is a sum of $\theta$ when $\theta$ is a sum of $\theta$ in $\theta$ when $\theta$ is a sum of $\theta$ is a sum of $\theta$ when $\theta$ is a sum of $\theta$ is a sum of $\theta$ in $\theta$ when $\theta$ is a sum of $\theta$ in $\theta$ in $\theta$ in $\theta$ is a sum of $\theta$ in $\theta$ i	CO4	К3
	1 - lote 1/1 U.L. allu y (0.2)	205	$V_2$

20. Given  $\frac{dy}{dx} = y - x$  with y(0) = 2, calculate y(0.1) and y(0.2) correct to CO5 K3 four decimal places by fourth order Runge-Kutta method.

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## **END SEMESTER EXAMINATION - APRIL - 2022**

# (CHOICE BASED CREDIT SYSTEM - OUTCOME BASED EDUCATION)

Programme: B.Sc. Information Technology

Date: 07.07.2022

Course Code: 20UITC41

Time: 10:00 AM - 1:00 PM

Course Title: Advanced Java Programming

Q. No.		SECTION - A (10 Answer ALL Questions	* 1 = 10 Marks)	CO(s)	K - Level
1.	The file produced by java comp	iler ends with extension.		CO1	K1
	1.java	2.html			
	3.class	4.byte			
2.	Java converts java s	ource code into byte code.		CO1	K1
	1.Interpreter	2.Compiler			1
	3.Preprocessor	4.Assembler			
3.	String class belongs to	_ package.		CO2	K1
	1.java.awt	2.java.applet			**1
	3.java.lang	4.java.string			
4.	Vector class is available in	package.		CO2	K1
	1.java.util	2.java.lang		002	KI
	3.java.awt	4.java.applet			
5.	In thread priority, MAX-PRIOR		<u>.</u>	CO3	K2
	1.5	2.8		CO3	
	3.10	4.15			
6.	A/An is a condition	that is caused by a run-time error in	the program	CO3	V 1
	1.Interrupt	2.Interface	no program.		K1
	3.Exception	4.Utility			
7.	The Graphics class is reside in_	•		CO4	W2
	1.java.io	 2.java.util		CO4	K2
	3.java.lang	4.java.awt	•		
8.	To pass a parameter to the apple		LITNAL	CO4	K1
	1.PARAM		FITIVIL.	CO4	K1
	3.PASINPUT	2.PASSPAR 4.PARINPUT			
	n programme and the state of th	4.FARINE U 1			

			100
9.	For execution of SELECT SQL query in JDBC, method mus be used.	cO2	K
	1.executeInsert() 2.executeDelete()		
	3.executeQuery() 4.executeUpdate()		
10.	Servlet is side scripting language	CO <sub>5</sub>	
	1.client 2.computer	003	Kl
	3.server 4.Gateway		
Q. No.	SECTION - B $ (5 * 4 = 20 \text{ Marks}) $		
	SECTION - B (5 * 4 = 20 Marks) Answer ALL Questions	CO(s)	) K.
11. (a)	Define operators in Java? Explain.	001	Level
(b)	[OR]	COI	K1
	Outline a Java Program to implement single Inheritance.	CO1	Kl
12. (a)	Discuss the various access protection in package, with example.	CO <sub>2</sub>	
(b)	How to handle Single Dimensional A	002	K2
13. (a)	How to handle Single Dimensional Array in Java? Discuss with examples.  What is an exception? Show the disc.	CO <sub>2</sub>	K2
	What is an exception? Show the different types of exception.	CO <sub>3</sub>	K3
(b)	Discover how I/O operations are performed in Java.		
14. (a)	How to pass the parameters into Applets? Explain.	CO3	K3
(b)		CO4	K2
15. (a)	Explain any three Text entry component in swing.  Explain the interfaces in icon		
	Explain the interfaces in javax.servlet packages and also give use of each.	CO4	K2
(b)	Classify the JDBC driver types according to their architecture.	CO5	K3
Q. No.		005	***
	-0110M - C	CO5	K3
16.	Answer ANY THREE Questions  Recall the concept of overloading constructors with help of java program.  Summarize User Defined B.	CO(s)	K -
17.	Rewrite a program in journal with help of		Level
18.	Summarize User Defined Exception with examples.  Write a program to display the small.	CO1	K1
19.	Write a program to display the small	CO2	K2
20.	Manipulate disc	CO3	K2
	area, using	04	K3
	*************************************	O5	K3
		<i>-5</i>	K.J

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## END SEMESTER EXAMINATION - APRIL - 2022

# (CHOICE BASED CREDIT SYSTEM - OUTCOME BASED EDUCATION)

programme: B.Sc. Information Technology

Course Code: 20UITC42

Course Title: Operating System Concepts

Date: 11.07.2022

Time: 10:00 AM - 1:00 PM

Q. No.	S	SECTION - A	(10 * 1 = 10 Marks)	CO(s)	K -
	A	answer ALL Qu	estions		Level
1.	DMA is used for	•		CO1	K1
	1.High speed devices		2.Low speed devices		
	3.Utilizing CPU cycles		4.Using memory unit		
2.	Operating system is a collection	of	<u>_</u> .	CO1	K1
	1.Hardware components		2.Input-output devices		
	3.Software routines		4.Commands		
3.	The FCFS algorithm is particula	rly troublesome	for	CO2	K1
	1.time sharing systems		2.multiprogramming systems		
	3.multiprocessor systems		4.operating systems		
4.	Mutual exclusion can be provide	ed by the		CO2	K1
	1.mutex locks		2.binary semaphores		
	3.both mutex locks and binary semaphores	,	4.multiprocess		
5.	The request and release of resou	irces are	<u>.</u> .	CO3	K2
	1.command line statements		2.interrupts		
	3.system calls		4.special programs		
6.	The circular wait condition can	be prevented by	·	CO3	K1
	1.using pipes	,	2.Using PCB		
	3.using thread		4.defining a linear ordering of resource types		
7.	The minimum number of frame	es to be allocated	to a process is decided by the	CO4	K2
	1.the amount of available physic	cal	2.operating System		
	memory  3.instruction set architecture		4.Program		

0	Run time mapping from virtual to physic	ical address is done by	у	C	04	۲'n
8.		2.CPU				Κ2
	1.Memory management unit	4.cache				
0	3.PCI In information is recorded mag	gnetically on platters.		C	O5	K2
9.		2.electrical	disks			114
	1.magnetic disks 3.assemblies	4.cylinders	1			
10.	A section of disk at the beginning of each	ch partition is set aside	e to contain the table	in Co	<b>)</b> 5	K1
10.	A section of disk at the sign of					•
	1.linked allocation	2.hashed al	location			
	3.indexed allocation	4.fat				
Q. No.	SECT	TON - B	(5 * 4 = 20  Mar)	ks) CC	)(s)	K-
	Answei	r ALL Questions				Level
11. (a)	Identify the services provided by an Op	erating System.		СО	1	K1
(b)	Examine the distinguishing features of	[OR] i)Real time system ii) N	Multiprocessor system	. CO:	1	K1
12. (a)	Give difference between Job-scheduling		numprocessor system	CO2		K2
( )		[OR]		CO2		K2
(b)	Explain FCFS scheduling algorithm. Fit waiting time for the processes given in Process CPU burst time(in ms) P1 24 P2 3	nd the average turnarou the table below.	ind time andaverage	CO2	. 1	K2
13. (a)	P3 3  Evamine startiation Differentiate 1 11					i
13. (a)	Examine starvation. Differentiate deadle	ock and starvation. [OR]		CO3	K	23
(b)	Examine the resource allocation graph.	<u>-</u>		CO3	K	3
14. (a)	Report the difference between Physical			CO4	K	
(b)	Demonstrate any two page replacement	[OR]		004	15.	2
15. (a)	Examine how an index file is used to sp	eed up the access in dim		CO4	K2	2
(b)	Write briefly about file attributes and op		ct-access files?	CO5	K3	3
Q. No.	SECTION	ON - C	(3 * 10	CO5	K3	
16.	Explain different types of Operating sys	Y THREE Questions	(3 * 10 = 30  Marks)	CO(s)	K - Lev	
17.	Describe process states with a diagram	D -		CO1	K1	
18.	i) A requests x ii) A requests y iii) B req	luests v iv) B reco	y following events	CO2	K2 K3	
	Assume that requested resources should	always be allocated to the	requests z vi) C			
•						

available. Draw the resource allocation graph for the sequences. And also mention whether it is a deadlock? If it is, how to recover the deadlock.

Illustrate segmented memory management.

Explain File Structure and Internal File Structure.

CO5 K3

19.

20.

Reg. No:		10			



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# **END SEMESTER EXAMINATION – APRIL 2021**

# (CHOICE BASED CREDIT SYSTEM - UNDER OUTCOME BASED EDUCATION)

Programme: B.Sc., CS & IT

Course Code: 20UMAA43

Course Title: Quantitative Aptitude

Date: 14.07.2022

Time: 10am-1pm

Max. Marks: 60

Qn. No.			ection – A swer ALL the		$[10 \times 1 = 10 \text{ Marks}]$	CO(s)	K-, Level
1.	Which digit l [a] Ten's dig	nas both place	and face value	as same?	[d] All the above	CO1	K1
2.	What is the u [a] 1	nit digit in (4: [b] 3	137) <sup>754</sup> ? [c] 7	[d] 9		CO1	K2
3.	The value of	$\sqrt{41-\sqrt{21+1}}$	+ √19 – √9 is _			CO2	<b>K</b> 1
	[a] 3	[b] 5	[c] 6	[d] 4			
4.	The average	of all odd num	bers up to 100			CO2	K2
	[a] 49	[b] 49.5		[d] 51	' 1 - diagount		
5.	Successive di	scounts of 109	%, 12% and 15	% amount to a s	single discount	CO3	K1
6.	[a] 32.68% If A's salary i	s 20% less tha	[c] 36.68% in B's salary, by	[d] 33.48% y how much per	rcent is B's salary	CO3	K2
	[a] 35%	[b] 25	3% ·	[c] 15%	[d] 20%		
7.	A works twice independently work is	, the number o	f B can comple f days in which	te a work in 12  A and B can to	days ogether finish the	CO4	K1
	[a] 4 days	[b] 6 days	[c] 8 days	[d] 18 days			
8.	A person cros per hour?	ses a600 m loi	ng street in 5 m	inutes. What is	his speed in km	CO4	K2
	[a] 3.6	[b] 7.2	[c] 8.4	[d] 10			

9.	Extra money paid for using others money is called	CO <sub>5</sub>	K <sub>1</sub>
10.	Extra money paid for using others money  [a] Principal [b] Sum [c] interest [d] simple interest  A sum of money amounts to Rs.6690 after 3 years and to Rs.10,035 after  6 years on compound interest. The principal is	CO <sub>5</sub>	K <sub>2</sub>
	[a] 4360 [b] 4460 [c] 4560 [d] $^{4660}$ [5 x 4 = 20 Marks	s] CO(s	) <sub>.</sub> K.
Qn. No. 11.a)	Section – B Answer ALL the Questions  a) What least value must be assigned to * so that the number 197 × 5462 is divisible by 9?  b) Find the number which is nearest to 3105 and is exactly divisible by 21.  [OR]	CO <sub>1</sub>	Le <sub>Vel</sub>
b)	Evaluate a) 6202.5 + 620.25 + 62.025 + 6.2025 + 0.62025.	CO1	K2
12.a)	b) $5.064 + 3.98 + 0.7036 + 7.6 + 0.3 + 2$ .	CO2	K2
b)	[OR] a) If the sum of two numbers is 42 and their product is 437, then find the absolute difference between the numbers?		
	b) The ratio between a two-digit number and the sum of the digits of that number is 4:1. If the digit in the unit's place is 3 more than the digit in the ten's place, then what is the number?	CO2	K2
13.a)	The value of the machine depreciates at the rate 10% per annum. If it's present value is Rs. 1,62,000, what will be its worth after 2 years? What was the value of the machine 2 years ago?	CO3	K2
b)	a) Find the fourth proportional to 4, 9, 12. b) Divide Rs. 672 in the ratio 5: 3.		
14.a)	A dog takes 4 leans s	CO3	K2
,	Was the day of the [OR]	CO4	K2
	What annual installment will discharge a debt of Rs. 1092 in due in 3 years at	CO4	K2
	[OR]	CO5	K2

b	$_{a)} If \log_{10} 2 = 0.30103$ , find the value of $\log_{10} 50$ .	CO5	r	K2
1	b) If $\log_{\sqrt{8}} x = 3\frac{1}{3}$ , find the value of x.			
Qn.	Section – C [3 x 10 = 30 Marks Answer Al.I. the Questions	s] CO(	s)	K – Level
16.	b) Find the total number of prime factors in the product	CO	1	<b>K</b> 3
	$4.4.7^{5} \times 11^{2}$			
17.	a) Nine persons went to a hotel for taking their meals. Eight of them spend Rs. 12 each on their meals and the ninth spend Rs. 8 More than the average expenditure of all the nine. What was the total money spend by them?	C	O2	К3
	b) Rohit was four times as old as his son eight years ago. After eight years Rohit will be twice as old as his son. What are their present ages?			
18.	a) Mr. Jones gave 40% percent of the money he had, to his wife. He also gave 20% of the remaining amount to each of his three sons. Half of the amount now left was spent on miscellaneous items and the remaining amount now left was deposited in the bank. How much money did Mr. Jones of Rs. 12,000 was deposited in the bank. How much money did Mr. Jones have initially?	unt	CO3	3 K3
	$\frac{1}{2}$ win the price of sugar, a man is able to buy			
	1 kg more for Rs 120. Find the original and reduced rate of sugar			
19.	45 men can complete a work in 16 days. Six days after they started work 30 more men joined them. How many days will they now take to complet the remaining work?	ing te	CO	4 K3
20.				
20.	a) A sum at simple interest of $13\frac{1}{2}$ % per annum amounts to Rs. 2502.50 after 4 years. Find the sum.		СО	5 K3
	b) A sum of Rs. 1550 is lent out into two parts, one at 8% and another of 6%. If the total annual income is Rs. 106, find the money lent at each rate	ne at e.		

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#### **DINDIGUL - 624 005**

[MOOD WE HOUST] (Affiliated to Madurai Kamaraj University)||(Accredited by NAAC with 'B' Grade)

#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme : B.A.,B.COM

Date: 13.07.2022

**Course Code: 20CENG31** 

Time: 10 am - 12 pm

Course Title: Body language: Key to

Max. Marks: 30

professional Success

#### SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

1. a) Describe Behavioural Connotations.

#### [OR]

- b) Define Oculesics in body language.
- 2. a) What does kinesics mean in communication?

#### [OR]

- b) Why are facial expressions important in communication?
- 3. a) What are the 3 types of smiles?

#### [OR]

- b) How does nodding affect communication?
- 4. a) How do hand movements help in understanding others?

#### [OR]

- b) What is paralanguage and give an example?
- 5. a) Why is Olfactics important?

#### [OR]

b) Why is Chromatics important for a profession in communication?

- 6. Elaborate Proxemics in non verbal communication.
- 7. How is Haptics used in communication?
- 8. Why is smiling interpreted differently in different cultures?
- 9. Describe Chronemics and give some examples.
- 10. What does Digital Body Language means in today's world-Explain.



#### G.T.N. ARTS COLLEGE (AUTONOMOUS)

#### **DINDIGUL - 624 005**

(Affiliated to Madurai Kamaraj University)||(Accredited by NAAC with 'B' Grade)

#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: B.Sc./B.A/B.Com

Date: 13.07.2022

Course Code: 20CMAT31

Time: 10 am - 12 pm

Course Title: Developing Quantitative Aptitude – I

Max Marks: 30

# SECTION – A Answer ALL the Questions.

 $[5 \times 3 = 15]$ 

1. a) Arrange the fractions  $\frac{5}{8}$ ,  $\frac{7}{12}$ ,  $\frac{13}{16}$ ,  $\frac{16}{29}$  and  $\frac{3}{4}$  in ascending order of magnitude.

#### [OR]

- b) If  $\frac{1}{3.718} = 0.2689$ , then find the value of  $\frac{1}{0.0003718}$ .
- 2. a) If  $\frac{a}{b} = \frac{3}{4}$  and 8a + 5b = 22, then find the value of a.

#### [OR]

- b) Two pens and three pencils cost Rs. 86. Four pens and a pencil cost Rs. 112. Find the cost of a pen and that of a pencil.
- 3. a) A ,B and C started a business by investing Rs.1,20,000, Rs. 1,35,000 and Rs. 1,50,000 respectively. Find he share of each, out of an annual profit of Rs. 56,700.

#### [OR]

b) A, B and C start a business each investing Rs. 20,000. After 5 months A withdrew Rs.5000, B withdrew Rs. 4000 and C invests Rs. 6000 more. At the end of the year, a total profit of Rs.69,900 was recorded. Find the share of each.

so that the mixture be worth Rs.10 per Kg?

#### IOR

- b) How much water must be added to 60 litres of milk at  $1\frac{1}{2}$  litres for Rs.20 so as to have a mixture worth Rs.  $10\frac{2}{3}$  a liter?
- 5. a) Find the present worth of Rs 930 due 3 years hence at 8% per annum. Also find the discount.

#### [OR]

b) Find the odd man out: 3,5,7,12,17,19.

#### SECTION – B $[3 \times 5 = 15]$ Answer Any THREE Questions.

- 6. Find the sum of the first 20 terms of the series  $\frac{1}{5\times6} + \frac{1}{6\times7} + \frac{1}{7\times8} + \dots$
- 7. If 2x + 3y + z = 55, x + z y = 4 and y x + z = 12, then what is the values of x, y and z?
- 8. A, B and C enter into a partnership by investing in the ratio of 3:2:4. After one year, B invests another Rs.2, 70,000 and C, at the end of 2 years, also invests Rs.2,70,000. At the end of three years, profits are shared in the ratio of 3:4:5. Find the initial investment of each.
- 9. The milk and water in two vessels A and B are in the ration 4:3 and 2:3 respectively. In what ratio, the liquids in both the vessels be mixed to obtain a new mixture in vessel C containing half milk and half water?
- 10. The true discount on a certain sum of money due 3 years hence is Rs. 250 and the simple interest on the same sum for the same time and at the same rate is Rs. 375. Find the rate percent.





DINDIGUL-624005

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# **END SEMESTER EXAMINATIONS-APRIL 2022**

Programme: All UG Programme

CourseCode: 20CCHE31

CourseTitle: Sugar Technology

Date: 13.07.2022

Time: 10 am - 12 pm

Max.Marks: 30

#### SECTION-A

[5X3 = 15]

#### AnswerALL theQuestions.

1. a) Describe the crystallization of sugar.

[OR]

- b) Write a short note on sugar industries in India.
- 2. a) Write a note on the extraction of juice from cane.

[OR]

- b) How is ethyl alcohol prepared from molasses?
- 3. a) Chart out the double sulphitation process.

[OR]

- b) Discuss the manufacturing method of sucrose from beet.
- 4. a) Discuss the preparation of power alcohol.

[OR]

b) How to estimate the sugar?

ORI

b) Explain the manufacturing method of beer.

write the preparation and uses or bagasse.

#### SECTION-B

[3 X5 = 15]

- 6. Explain in detail the manufacturing of sucrose.
- 7. Give an account on i) purification of juice ii) defection process.
- 8. Give a comparative account of carbonation and sulphitation.
- 9. Draw a flowchart and explain the double carbonation process.
- 10. Briefly explain the preparation of absolute alcohol and wine.



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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: All UG Programme

Date: 13.07.2022

Course Code: 20CTAM31

Time: 10 am -12 pm

Course Title : பயண இலக்கியம்

Max Marks:75

#### SECTION - A

 $[5 \times 2 = 10]$ 

#### Answer ALL the Questions.

1. அ) ஆற்றுப்படை நூல்கள் பயண இலக்கியங்களின் முன்னோடியாய்த் திகழ்வதை விளக்குக.

#### (அல்லது)

- ஆ) பயண இலக்கியங்களின் பயன்களை எடுத்துரைக்க.
- அ) கலை, பண்பாடு தொடர்பான பயணங்களின் முக்கியத்துவத்தைப் புலப்படுத்துக.

#### (அல்லது)

- ஆ) ஏ.கே.செட்டியார் கூறும் சென்னைப் பட்டணத்துச் சிறப்புகளை வெளிப்படுத்துக.
- 3. அ) சிவப்பு இந்தியர்களும், இந்தியர்களும் வேறுபடும் விதங்களாக ஏ.கே.செட்டியார் கூறுவனவற்றை அடையாளங்காண்க.

#### (அல்லது)

- ஆ) 'ஐரிஷ் மக்கள் நாடகக்கலையைப் போற்றுபவர்கள்' இக்கூற்றை மெய்ப்பிக்க.
- 4. அ) பாரிஸ் நகரத்தின் சிறப்புகளை ஆராய்க.

#### (அல்லது)

ஆ) பைதான் சாஸ்திரியின் தமிழ்த்தொண்டை வெளிப்படுத்துக.

 அ) சாஸதர் கலாசாலையில் ஏ.கே.செட்டியாருக்கு ஏற்பட்ட அனுபவங்களை விளக்குக

(அல்லது)

ஆ) கப்பல் பிரயாணம் விருப்பு, வெறுப்பு இரண்டும் கலந்தது என்பதை உலகம் சுற்றும் தமிழன் நூல் வழி ஆராய்க

#### SECTION - B

 $|5 \times 7 = 35|$ 

Answer ALL the Questions.

- 6. காப்பியங்களில் இடம்பெறும் பயணம் தொடர்பான செய்திகளைத் தொகுத்துரைக்க.
- 7. பயண இலக்கியங்களின் வகைகளைச் சான்றுடன் விரித்துரைக்க
- ஹவாய்த் தீவின் சிறப்பை ஏ.கே.செட்டியாரின் வழிநின்று அடையாளப்படுத்துக.
- ரோமா ரோலனுடனான ஏ.கே.செட்டியாரின் சந்திப்பு அனுபவங்களை ஆராய்க.
- 10. இத்தாலி குறித்து செட்டியார் அவர்களின் பார்வையை நிறுவுக.



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#### END SEMESTER EXAMINATIONS - APRIL 2022

Programme : All UG Programmes

Date: 13.07.2022

**Course Code: 20CBBA31** 

Time: 10 am - 12 pm

Course Title: Total Quality Management

Max Marks: 30

SECTION - A

 $[5 \times 3 = 15]$ 

Answer ALL the Questions.

1. a) Define the term demining philosophy.

[OR]

- b) List out the principles of total quality management.
- 2. a) Explain the process of PDSA cycle.

[OR]

- b) Write a short note on continuous process improvement.
- 3. a) Explain the types of bench marking.

[OR]

- b) List out the objectives of bench marking.
- 4. a) What is quality function deployment?

[OR]

- b) What are the four phases of quality function deployment?
- 5. a) Discuss the need for ISO.

[OR]

b) List the ISO 9000 series.

- Answer Any THREE Questions.
- 6. What are the barriers to total quality management implementation?
- Discuss about the seven tools for improving quality.
- Elaborately discuss about six sigma principles.
- Discuss about the importance of quality function deployment.
- 10. Explain about documentations needed for ISO Standards.

#### ORI

b) How to create a chart in Microsoft Excel?

#### SECTION - B

 $[3 \times 5 = 15]$ 

#### Answer Any THREE Questions.

- 6. Explain briefly memory unit of a computer.
- 7. Explain any five input devices indetail.
- 8. Write about mail merge with example.
- 9. Create a worksheet to declare the result of students based on the following condition, If mark >=40 print "PASS" else print "FAIL" using IF condition in MS Excel.
- 10. What are the different formulas in MS Excel? Explain any five formulas with example.

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#### **END SEMESTER EXAMINATION -APRIL 2022**

Programme: All UG Programmes

Date: 13.07.2022

Course Code: 20CCSC31

Time: 10 am - 12 pm

Course Title: Office Automation

Max Marks: 30

#### SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

1. a) List out the components of a computer.

[OR]

- b) Illustrate the function of ALU.
- 2. a) List out any three output devices.

[OR]

- b) Discuss about storage devices.
- 3. a) List out the components of MS-Word window.

[OR]

- b) Describe how to add header and footer in Word.
- 4. a) Define cell and address in Microsoft Excel.

[OR]

b) How to sum a column in excel with auto sum?

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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme : All UG Programmes

Course Code: 20CINF31

**Course Title: Business Analytics** 

Date: 13.07.2022

Time: 10 am - 12 pm

Max. Marks: 30

SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

1. a) What is business analytics?

[OR]

- b) Explain the data for business analytics
- 2. a) List out any five basic excel skills.

[OR]

- b) Describe Spreadsheet Add-Ins in business analytics.
- 3. a) Draw a diagram for bar chart.

[OR]

- b) Explain Sorting and Filtering.
- 4. a) Define population.

[OR]

b) Define samples.

5. a) What is regression analysis?

ORI

b) What is simple linear regression?

SECTION - B

 $[3 \times 5 = 15]$ 

- 6. Illustrate the evolution of business analytics.
- 7. Create a chart for any application with your own data.
- 8. Prepare a student mark list to find total and average and show the formula.
- 9. Explain measures of shapes with example.
- 10. Discuss in detail about qualitative and judgemental forecasting...



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#### END SEMESTER EXAMINATIONS – APRIL 2022

Programme : All UG Programmes

Course Code: 20CFSC31

Course Title: The Constitution of India

Date: 13.07.2022

Time: 10 am - 1 pm

Max. Marks: 30

SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

1. a) What is constitution?

[OR]

- b) Explain the aim of the constitution of India.
- 2. a) Write the list of the people who were involved in the construction of the Constitution of India.

[OR]

- b) Explain the following terms in the constitution of India:
  - (i) Article
- (ii) Schedules
- 3. a) What is democracy?

[OR]

b) Explain the body of constitution.

4. a) What is right of speech?

ORI

- b) What is right of education?
- 5. a) Write about the preamble of constitution of India?

[OR]

b) Write down the names of parts present in the constitution of India.

SECTION - B

 $[3 \times 5 = 15]$ 

- 6. What is meant by fundamental rights?
- 7. What is your view on the constitution of India?
- 8. Write any two fundamental rights.
- 9. Write the significance of constitution of India
- 10. Write a short note on the history of the constitution of India.

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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme : All UG Courses

Date: 13.07.2022

Course Code: 20CBSW31

Time: 10 am - 1 pm

Course Title: Communication & Life Skills

Max. Marks: 30

SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

1. a) Explain the purpose of communication.

[OR]

- b) Write any two definition of communication.
- 2. a) Explain the stages of communication

[OR]

- b) Explain the channels of communication.
- 3. a) Explain the selection of suitable approaches in mass communication.

[OR]

- b) Explain the media for different target groups.
- 4. a) Explain the critical thinking in life skills.

[OR]

b) Coping with emotions in life skills.

J. a) write about the time management

ORI

b) Write about the goal setting.

#### SECTION - B

 $[3 \times 5 = 15]$ 

- 6. Explain the need and importance of communication.
- 7. Explain the types of communication?
- 8. Explain the types of mass media?
- 9. What are the five elements of effective communication?
- 10. What are the ten qualities of an effective team leader?



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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: All II Year UG Students

Date: 13.07.2022

Course Code: 20CENG41
Course Title: Stress Management

Time: 2 pm – 4 pm Max Marks: 30

#### SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

1. a) What is stress? What are the sources and types of stress?

#### [OR]

- b) What are the stress signals a college student may face?
- 2. a) List the health risks associated with chronic stress.

#### [OR]

- b) Mention the key elements of HPA axis.
- 3. a) Describe the factors of personality related to stress.

#### [OR]

- b) Differentiate between stress and anxiety.
- 4. a) What is coping?

#### [OR]

b) How aerobic exercise helps in reducing stress level?

5. a) How therapy can help to manage stress:

IORI

b) What is digital stress?

#### SECTION - B

 $[3 \times 5 = 15]$ 

- 6. Explain in detail about the pioneers in stress research.
- 7. Discuss the effect of stress on the immune system.
- 8. Define assertiveness communication and enumerate 5-steps to assertive communication.
- 9. Examine the strategies for relieving stress.
- 10. Elucidate the counselling techniques to reduce stress.



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#### **END SEMESTER EXAMINATION - APRIL 2022**

Programme: All UG Programmes

Course Code: 20CHIS41

Course Title: Introduction to Museology

Date: 13.07.2022

Time: 2 pm - 4 pm

Max Marks: 30

#### SECTION - A

[5 X 3 = 15]

#### Answer ALL the Questions.

1. a) Define Museum. அருங்காட்சியகத்தின் விளக்கம்.

#### [OR]

- b) Discuss the scope and the purpose of museum. அருங்காட்சியகத்தின் வாய்ப்பு மற்றும் நோக்கம்.
- 2. a) Explain the functions of museum. அருங்காட்சியகத்தின் செயல்பாடுகளை விளக்குக.

#### [OR]

- b) Defence and Site Museum. இராணுவ மற்றும் கள அருங்காட்சியம்.
- 3. a) Explain the purchase of museum things and preparation of exhibits. அருங்காட்சியக் பொருட்களை வாங்குதல் மற்றும் அறிவியல் தொடர்பான பொருட்களை தயாரித்தல் பற்றி விளக்குக.

#### [OR]

b) Collections of gift and treasure trove. அன்பளிப்பு மற்றும் புதையல் பொருட்கள் சேகரிப்பு. a) Explain the preparation of catalogue cards.
 பதிவட்டை தயாரித்தல் பற்றி விளக்குக.

#### OR

- b) Chemical and electro chemical preservation method. வேதியல் மற்றும் மின் வேதியல் பாதுகாத்தல் முறை.
- a) Hand book of museum techniques and journals.
   அருங்காட்சியக கையேடுகள் மற்றும் இதழ்கள்.

#### [OR]

b) British Museum, National Gallery (London) and Louvre Museum. பிரிட்டிஷ் அருங்காட்சியம், தேசிய கூடம் மற்றும் லூவர் அருங்காட்சியம்.

#### SECTION - B

 $[3 \times 5 = 15]$ 

- Interpret the history of the museum.
   அருங்காட்சியகத்தின் வரலாற்றை விவரிக்க.
- Describe the types of museum.
   அருங்காட்சியகத்தின் வகைகள் பற்றி விளக்குக.
- Explain the preservation system in museum.
   அருங்காட்சியகத்தில் பாதுகாத்தல் முறை பற்றி விவரி.
- 9. Summarize the collection of materials in museum. அருங்காட்சியகத்தில் பொருள் சேகரிப்பு பற்றி சுருக்கமாக எழுதுக.
- 10. Explain the duty of museum in education. கல்வியில் அருங்காட்சியகத்தின் பணிகள் பற்றி விவரி.



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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: All UG Programmes Course Code: 20CCOM41/20CCCA41

Course Title: Advertising and Sales Promotion

Date: 13.07.2022

Time: 2 pm - 4 pm

Max Marks: 30

#### SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

- 1. a) Define advertising.
  - அ) விளம்பரத்தை வரையாக்கவம்

#### [OR]

- b) What are the characteristics of advertising?
  - ஆ) விளம்பரங்களின் பண்புகள் யாவை?
- 2. a) List out the direct advertising media.
  - அ) நேரடி விளம்பர ஊடகங்களை பட்டியலிடுங்கள்.

#### [OR]

- b) Define indoor and outdoor advertising media.
- ஆ) உட்புற மற்றும் வெளிப்புற விளம்பர ஊடகங்களை வரையறுக்கவும்.
- 3. a) State the essentials of a good advertisement copy.
  - அ) ஒரு நல்ல விளம்பரப் பிரதியின் அத்தியாவசியங்களை குறிப்பிடவும்.

#### [OR]

- b) Show the types of advertisement copy.
- ஆ) விளம்பர நகல் வகைகளைக் கூறுக.
- 4. a) List out the characteristics of sales promotion.
- அ) விற்பனை மேம்பாட்டின் சிறப்பியல்புகளை பட்டியலிடுக.

- b) What are the objectives of sales promotion?
- ஆ) விற்பனை ஊக்குவிப்பு நோக்கங்கள் என்ன?
- 5. a) List out the sales promotion techniques.
  - அ) விற்பனை ஊக்குவிப்பு நுட்பங்களை பட்டியலிடுக.

#### ORI

- b) Write a short note on seasonal promotion.
- ஆ) பருவகால ஊக்குவிப்புப் பற்றி ஒரு சிறு குறிப்பை எழுதுக.

#### SECTION - B

 $[3 \times 5 = 15]$ 

#### Answer Any THREE Questions.

- 6. Differentiate advertising and sales promotion. விளம்பரம் மற்றும் விற்பனை மேம்பாட்டை வேறுபடுத்துக.
- 7. Summarize the advertising media and its classification. விளம்பர ஊடகம் மற்றும் அதன் வகைப்பாடு ஆகியவற்றை சுருக்கி எழுதுக.
- 8. Interpret benefits and limitations of sales promotion. விற்பனை மேம்பாட்டின் நன்மைகள் மற்றும் வரம்புகளை விளக்குக.
- 9. Explain i) Purchase Coupons
  - ii) Free Shipping

விளக்குக:

- i) கொள்முதல் கூப்பன்கள்
- ii) இலவசக் கப்பல் போக்குவரத்து
- 10. Briefly explain advertising copy and its preparation விளம்பர நகல் மற்றும் அதன் தயாரிப்பை பற்றி சுறுக்கமாக விளக்குக.

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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme : All UG Programmes

Date: 13.07.2022

Course Code: 20CMAT41

Time: 2 pm - 4 pm

Course Title: Developing Quantitative Aptitude - II Max Marks: 30

#### SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

1. a) If  $2^{x-1} + 2^{x+1} = 1280$ , then find the value of x.

#### [OR]

- b) Find the value of  $\left[ 5 \left( 8^{\frac{1}{3}} + 27^{\frac{1}{3}} \right)^{3} \right]^{\frac{1}{4}}$
- 2. a) Two pipes A and B can fill a tank in 36 hours and 45 hours respectively. If both the pipes are opened simultaneously, how much time will be taken to fill the tank?

#### [OR]

- b) Two pipes can fill a tank in 10 hours and 12 hours respectively while a third pipe empties the full tank in 20 hours. If all the three pipes operate simultaneously, in how much time will the tank be filled?
- 3. a) A man takes 3 hours 45 minutes to row a boat 15 km downstream of a river and 2 hours 30 minutes to cover a distance of 5 km upstream. Find the speed of the river current in km/hr.

4. a) If the height of a pole is  $2\sqrt{3}$  metres and the length of its shadow is 2 metres, then find the angle of elevation of the sun.

#### [OR]

- b) A ladder leaning against a wall makes an angle of 60° with the ground. If the length of the ladder is 19 m, find the distance of the foot of the ladder from the wall.
- 5. a) If 15 toys cost Rs. 234, what do 35 toys cost?

#### [OR]

b) If 15 men, working 9 hours a day, can reap a field in 16 days, in how many days will 18 men reap the field, working 8 hours a day?

#### SECTION - B

 $[3 \times 5 = 15]$ 

#### Answer Any THREE Questions.

- 6. (i) Which is larger  $\sqrt{2}$  or  $\sqrt[3]{3}$ ? (ii) Find the largest from among  $\sqrt[4]{6}$ ,  $\sqrt{2}$  and  $\sqrt[3]{4}$
- 7. Two pipes A and B can fill a tank in 36 minutes and 45 minutes respectively. A water pipe C can empty the tank in 30 minutes. First A and B are opened. After 7 minutes, C is also opened. In how much time, the tank is full?
- 8. A man can row 40 km upstream and 55 km downstream in 13 hours. Also, he can row 30 km up streams and 44 km downstream in 10 hours. Find the speed of the man in still water and the speed of the current.

On walking 24 m towards the tower, the angle of elevation becomes 60° Find the height of the tower.

10. If 9 engines consumes 24 metric tonnes of coal, when each is working 8 hours a day, how much coal will be required for 8 engines, each running 13 hours a day, it being given that 3 engines of former type consume as much as 4 engines of latter type?

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On walking 24 m towards the tower, the angle of elevation I

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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: All UG Programmes

Date: 13.07.2022

Course Code: 20CPHY41

Time: 2 pm – 4 pm

Course Title: Sources of Energy

Max Marks: 30

#### SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

1. a) What are conventional sources of energy? Give some examples.

#### [OR]

- b) Write the advantages and disadvantages of conventional energy sources.
- 2. a) What are hydro power resources?

#### [OR]

- b) List the advantages of Micro hydro schemes.
- 3. a) Define wind velocity and incident wind velocity.

#### [OR]

- b) Explain Lift and Drag type machines.
- 4. a) What are non conventional sources of energy? Give some examples

#### [OR]

b) List the types of geothermal resources.

# SECTION – B

 $[3 \times 5 = 15]$ 

#### Answer Any THREE Questions.

6. Explain in detail about conventional sources of energy.

b) Write the advantages and disadvantages of OTEC.

- 7. Explain hydro power technology.
- 8. Discuss in detail about wind turbines.
- 9. Explain in detail about non conventional sources of energy.
- 10. Discuss in detail about OTEC.



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# **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: All UG Programme

Date: 13.07.2022

Course Code: 20CCHE41

Time: 2 pm - 4 pm

Course Title: Perfume Chemistry

Max Marks: 30

#### SECTION - A

 $[5 \times 3 = 15]$ 

Answer ALL the Questions.

1. a) Classify essential oils with examples.

[OR]

- b) Describe the role of alcohols and ketones in perfume synthesis.
- 2. a) Write notes on Citronellol.

[OR]

- b) Discuss about natural perfumes.
- 3. a) Discuss the formulation of Jasmine perfume.

[OR]

- b) Write the composition of synthetic perfume.
- 4. a) Discuss the constituents of artificial flavours.

[OR]

b) Name any three perfumes produced from fruit flowers and write their compositions.

5. a) Give an account on chemical ingredients of grape compounds.

ORI

b) Mention any six commercial fruit flavours.

SECTION - B

 $[3 \times 5 = 15]$ 

- 6. Explain the method of isolation of essential oils.
- 7. What are flower perfumes? Explain the composition of carnation.
- 8. Describe the role of diphenyl compounds in perfumery.
- 9. Explain the extraction process of flavour from fruit juice.
- 10. Give an account on apple compounds in perfume industry.



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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: All UG Programmes

Course Code: 20CZOO41

Course Title: Nutrition and Dietetics

Date: 13.07.2022

Time: 2 pm - 4 pm

Max. Marks: 30

#### SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

1. a) What are macronutrients and their role in digestion?

#### [OR]

- b) Define micronutrients and its types.
- 2. a) Explain the method of rice parboiling and add its health benefits.

#### [OR]

- b) List out the health benefits and nutritive values of germinated sprouts.
- 3. a) List out any three fibrous food materials and their nutritional significance.

#### [OR]

- b) Explain bomb calorimeter and its uses.
- 4. a) Illustrate balanced diet and list out its significance.

#### [OR]

b) Identify the factors and complications of obesity.

b) Give an account on hypertension.

#### SECTION - B

 $13 \times 5 = 151$ 

- 6. Fruits and vegetables are nutrient power house Explain.
- 7. Summarize the menu planning and meal pattern for vegetarian and nonvegetarian diet.
- 8. Explain the methods of determination of BMR and the factors affecting it.
- 9. List out the types of nutritional deficiency diseases and illustrate with suitable examples.
- 10. Describe the causes, symptoms, prevention and dietary management for diabetes.



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# **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: All UG Programme

Course Code: 20CTAM41

Course Title : மொழிபெயர்ப்பு இலக்கியம்

Date: 13.07.2022

Time: 2 pm - 4 pm

Max Marks: 30

#### SECTION - A

[5 X 3 = 15]

#### Answer ALL the Questions.

1 .அ) மொழிபெயர்ப்பின் வகைகளை விளக்குக.

(அல்லது)

- ஆ) மொழிபெயர்ப்பாளரின் அடிப்படைத்தகுதிகளை பட்டியலிடுக.
- 2. அ) மொழிபெயர்ப்பியலில் நிகரன்கள் என்றால் என்ன? (அல்லது)
  - ஆ) மொழிபெயர்ப்பின் மூவிடச் செயல்பாடுகள் யாவை?
- 3. அ) இயந்திரம் நாவலின் தலைமைப் பாத்திரமான நீலாவின் பாத்திரப்படைப்பு குறித்தெழுதுக.

(அல்லது)

- ஆ) இயந்திரம் நாவலின் ஆசிரியர் பற்றிக் குறிப்பு வரைக.
- 4. அ) இயந்திரம் நாவலின் தலைப்புப் பொருத்தம் பற்றி விவரிக்க. (அல்லது)
- ஆ) மலையாற்றூர் ராமகிருஷ்ணன் உணர்த்தும் அரசு இயந்திரம் குறித்து

எழுதுக.

அர இயந்தரம் நாவல் உணர்த்தும் கேரள மக்களின் சமூகப் பண்பாடுகளை விவரிக்க.

#### (அல்லது)

ஆ) "அதிகார இச்சைகளின் சமரச இயக்கம்" இயந்திரம் நாவலில் வெளிப்படும் பாங்கை விவரிக்க.

### SECTION – B [3 $\times$ 5 = 15] Answer ALL the Questions.

- 6. மொழிபெயர்ப்பியல் கோட்பாடுகளைக் கட்டமைக்க.
- 7. மொழிபெயர்ப்பும் மொழி வழக்கும் குறித்துக் கட்டுரை வரைக
- இயந்திரம் மலையாள நாவல் மொழியாக்கம் பெற்ற விதத்தைப் புலப்படுத்துக.
- 9. இயந்திரம் நாவலின் மையக்கருத்தைத் தொகுத்துரைக்க.
- 10. இயந்திரம் நாவல் வெளிப்படுத்தும் நேர்மையான ஐ.ஏ.எஸ் அதிகாரிக்கு ஏற்படும் சிக்கல்கள் குறித்து ஆய்க.



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#### **END SEMESTER EXAMINATIONS - APRIL 2022**

Programme : All UG Programmes

Date: 13.07.2022

Course Code: 20CBBA41

Time: 2 pm - 4 pm

Course Title: Digital Marketing

Max Marks: 30

### SECTION – A

 $[5 \times 3 = 15]$ 

Answer ALL the Questions.

1. a) List out the process of digital marketing.

[OR]

- b) Write a short note on inbound marketing.
- 2. a) What is web hosting?

[OR]

- b) Explain the types of websites.
- 3. a) What do you mean by E-advertising?

[OR]

- b) Write a note on bidding strategies.
- 4. a) Write about marketing using facebook.

[OR]

- b) What is the procedure to do marketing through YouTube?
- 5. a) What is called as influencer marketing?

[OR]

b) Define content marketing in short.

- 6. State the difference between traditional marketing and digital marketing.
- 7. Discuss about search engine optimization.
- 8. Explain different types of bidding strategies.
- 9. List out the significance of email marketing.
- 10. List out the process of content creating.



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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: All UG Programme

Date: 13.07.2022

Course Code: 20CBCA41

Time: 2 pm - 4 pm

Max Marks: 30

Course Title: PC Hardware and Troubleshooting

#### SECTION A

 $[5 \times 3 = 15]$ 

#### [Answer ALL the questions]

1. a) Visualize the booting process.

[OR]

- b) Express about how to assemble the PC.
- 2. a) Tell about software.

[OR]

- b) Explain how a computer works?
- 3. a) Discuss about updating software.

[OR]

- b) Write short notes on:
  - a) Virus
- b) Malware
- 4. a) Recall the concept of partitioning hard drive.

- b) Express your view about installing and uninstalling software.
- 5. a) Report trouble shooting and repairing printers.

[OR]

b) Discuss about understanding error messages and how to search for information.

- 6. Explain about components of a computer.
- 7. Illustrate about hardware.
- 8. Examine the concept of computer hardware maintenance.
- 9. Describe about installing operating systems.
- 10. Explain the following
  - a) Fixing software problems.
  - b) Fixing Hardware problems.

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# **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme : All UG Programmes

Course Title: ASP.NET

Course Code: 20CCSC41

Date: 13.07.2022

Time: 2 pm - 4 pm

Max Marks: 30

#### SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

1. a) How to customise the IDE and create a new project in visual studio 2005.

#### OR

- b) Explain in detail about the menu bar in visual studio 2005.
- 2. a) Explain in detail on check box and radio button in ASP.NET.

#### [OR]

- b) Explain image control of ASP.NET in detail with example.
- 3. a) Explain ASP.NET grid view control in detail.

#### [OR]

- b) How to create a database table in grid view?
- 4. a) How to display static data tree view server control?

#### [OR]

b) What are ASP.NET master pages? Explain.

b) What is site map APP Explain in detail

#### SECTION - B

 $[3 \times 5 = 15]$ 

- 6. Explain in detail on ASP.NET server controls.
- 7. Explain detail on ASP.NET architecture and it's components.
- 8. Explain event handler and session management in ASP.NET.
- Explain ASP.NET database connection string insert, update and delete in detail.
- 10. How to build ASP.NET site map data provider?



# G.T.N. ARTS COLLEGE (AUTONOMOUS)

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# END SEMESTER EXAMINATIONS – APRIL 2022

Programme : All UG Programmes

Course Code: 20CINF41

Course Title: Desktop Publishing

Date: 13.07.2022

Time: 2 pm - 4 pm

Max. Marks: 30

#### SECTION - A

 $[5 \times 3 = 15]$ 

### Answer ALL the Questions.

1. a) Explain how to start adobe photoshop?

#### [OR]

- b) How will you crop an image in adobe photoshop?
- 2. a) List out any 5 tools in adobe photoshop. Explain any two.

#### [OR]

- b) Explain the work area in photoshop.
- 3. a) What is CorelDraw? How do you start CorelDraw?

#### [OR]

- b) Explain five perfect shapes in a brief?
- 4. a) What is the use of Text tool?

#### [OR]

b) Write the steps to import an image in Corel Draw.

5. a) What is the default paper type and size when we open CorelDraw and what is the use of graph paper?

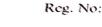
#### [OR]

b) Write down the steps to export files in CorelDraw.

#### SECTION - B

 $[3 \times 5 = 15]$ 

- 6. Explain briefly about selection tools.
- 7. List out the ten different types of filters and explain any three.
- 8. Discuss about property bar.
- 9. Illustrate in detail about Resizing, Rotating, Skewing and Cropping an image in CorelDraw.
- 10. Design an invitation on your own and explain the tools you used to design.





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# END SEMESTER EXAMINATIONS – APRIL 2022

Programme: All UG Programmes

Course Code: 20CHMC41

Course Title: Traditional Food of Tamilnadu

Date: 13.07.2022

Time: 2 pm - 4 pm

Max Marks: 30

#### SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

1. a) Define Tamil Cuisine and explain its special features.

#### [OR]

- b) Name any ten country vegetables of tamilnadu and write about the significance of any two country vegetables.
- 2. a) Write any five major cuisines of tamilnadu. Explain any two in detail. [OR]
  - b) Explain any three popular dishes of dindigul region.
- 3. a) Write any five breakfast meal of tamilnadu.

#### [OR]

- b) Write the global significance of the vegetarian meal of tamilnadu?
- 4. a) Write any five traditional sweets of tamilnadu and describe any two of it.

#### [OR]

b) Define payasam and explain the preparation process of pal payasam.

#### [OR]

b) Write the uniqueness of firewood cooking.

#### SECTION - B

 $[3 \times 5 = 15]$ 

- 6. Explain in detail about the cooking equipments used in tamil cuisine.
- 7. Write the preparation of common masala powders in the household of tamilnadu and explain how they are playing a major role in tamil cuisine.
- 8. Write the meaning and preparation of kumbakonam degree coffee and meter coffee.
- 9. Define dosa and idli. Explain the preparation of masala and adai dosa.
- 10. What are the points to be considered for making traditional curries and gravies of tamil cuisine?



#### G.T.N. ARTS COLLEGE (AUTONOMOUS)

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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: All UG Programmes

Course Code: 20CBSW41

Course Title: Environmental Social Work

Date: 13.07.2022

Time: 2 pm - 4 pm

Max Marks: 30

#### SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

1. a) What are the causes for air pollution?

[OR]

- b) Spell out the consequences of water pollution.
- 2. a) Name the types of disaster.

[OR]

- b) What are the components of ecology?
- 3. a) Write about save silent valley movement.

[OR]

- b) What are the types of resources in environment?
- 4. a) What do you know about global warming?

[OR]

b) Who are called as marginalised?

5. a) Show how environment conservation protects human health?

ORI

b) What do you understand by collective action in environment issues?

#### **SECTION - B**

 $[3 \times 5 = 15]$ 

- 6. Explain the causes for environmental degradation in India.
- 7. Explain the causes for disaster and mitigation measures taken to remove the identified impacts.
- 8. Explain the importance of Narmada Bhachao Andholan movement in India.
- 9. Explain the impact of global warming in habitats in the world.
- 10. Interpret the problems of Appiko movement in Uttara kannada (Shimoga District).

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#### END SEMESTER EXAMINATIONS – APRIL 2022

Programme: B.Sc. Forensic Science

Date: 13.07.2022

Course Code: 20CFSC41

Time: 2 pm - 4 pm

Course Title: Scientific and Legal Principles

of Forensic Evidence

Max.Marks: 30

SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

1. a) What is confessions?

[OR]

- b) Who is an expert?
- 2. a) Define Burden of proof?

[OR]

- b) Define Chain of Custody.
- 3. a) Elaborate the stages of examination of witness.

[OR]

- b) Define testimony and its types.
- 4. a) What are the post-trial stages in criminal proceedings?

[OR]

b) Define witness.

a) What is mean by impeachment

[OR]

b) What is hearsay evidence?

SECTION - B

 $[3 \times 5 = 15]$ 

- 6. Define evidence and types of evidence.
- 7. What is the method of identification, collection and preservation of evidence?
- 8. Define trial and write down the pre-trial stages in criminal proceedings?
- 9. Elaborate the role of expert in courtroom?
- 10. What is the significance of evidences on crime scene?



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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme : All UG Programmes

Course Code: 20CBPA41

Course Title: Investment Management

Date: 13.07.2022

Time: 2 pm - 4 pm

Max Marks: 30

SECTION - A

 $[5 \times 3 = 15]$ 

#### Answer ALL the Questions.

1. a) Write any two definitions for investment.

[OR]

- b) State the various types of investments.
- 2. a) Write a short note on annual report.

[OR]

- b) Write a note on social platforms for investment.
- 3. a) What is derivative market?

[OR]

- b) State the functions of securities market.
- 4. a) What are Gilt- edged securities?

[OR]

b) Mention the features of capital market.

IORI

b) What do you mean by Investor's Protection fund?

#### SECTION - B

 $[3 \times 5 = 15]$ 

- 6. Distinguish between the real assets and financial assets.
- 7. Explain the factors influencing investment decision.
- 8. Who are the major participants in securities market?
- 9. Discuss the structure of Indian Capital market.
- 10. State the functions of SEBI.

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# **END SEMESTER EXAMINATION – APRIL 2022**

Programme: All UG Programmes

Date:13.07.2022

Course Code: 20CHMC42

Time: 2 pm - 4 pm

Course Title: Entrepreneurship &

M--- M 1 20

Personality Skills for Hospitality

Max Marks: 30

# SECTION – A Answer ALL the Questions.

 $[5 \times 3 = 15]$ 

1. a) Brief the term Entrepreneurship.

[OR]

- b) Write the difference between Entrepreneur and Intrapreneur.
- 2. a) How will you do the misenplace for restaurant service?

[OR]

- b) Can you write the procedures involved while cleaning a public area.
- 3. a) Why is Grooming important in the Hotel Industry?

[OR]

- b) How do hoteliers maintain good personal hygiene in hotels?
- 4. a) What are the types of communication skills? Explain.

[OR]

b) What is the importance of 'Small Talk' before serious business?

5. a) Can you list down the learning that you get from seniors of the hotel where you completed the training?

[OR]

b) What are the characteristic of a good team?

SECTION - B

 $[3 \text{ X} \cdot 5 = 15]$ 

- 6. Explain in detail about entrepreneur and write the various types of entrepreneur
- 7. Write in detail about the Check In and Checkout procedures of a five star hotel.
- 8. Define Listening. Explain the art of Intelligent Listening.
- 9. Explain the techniques of personality analysis through body language.
- 10. Define group discussion and write the skills required for group discussion.



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### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: All Second Year UG

Course Code: 20USSS31 Course Title: Soft Skills Date: 26.07.2022

Time: 10 am – 12 pm

Max. Marks: 50

SECTION - A

[5 X 4 = 20]

### Answer any FIVE Questions.

- 1. Define soft skills and its kinds.
- 2. What are SMART goals?
- 3. Write a note on time stressors.
- 4. Mention few methods of effective time management.
- 5. What is brainstorming? What is it used for?
- 6. List the behavioral characteristics of assertive communication.
- 7. What is social awareness? What are the skills associated with social awareness?
- 8. Explain civic responsibility?

SECTION - B

 $[3 \times 10 = 30]$ 

# Answer Any THREE Questions.

9. Self esteem and positive attitude play a vital role in present scenario – Discuss.

- 11. Evaluate the significance of four D's in Time management.
- 12. Elaborate the five elements that define Emotional Intelligence.
- 13. What is Sustainable development and how is conservation of natural resources possible?

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# **END SEMESTER EXAMINATION – APRIL 2022**

Programme: All Second Year UG

Course Code: 20USSS41

Course Title: Soft Skills II

Date: 26.07.2022

Time: 2 pm - 4 pm

Max. Marks: 50

#### SECTION - A

 $[5 \times 4 = 20]$ 

### Answer any FIVE Questions.

- Define employability skills.
- 2. Why CV is important in acquiring a job?
- 3. Why communication and interpersonal relations are important in workplace?
- 4. Describe paralanguage.
- 5. List some important rules for email etiquette.
- 6. Discuss the significance of team spirit.
- 7. State the importance of grooming in workplace.
- 8. What do you mean by workplace etiquette?

#### SECTION - B

 $[3 \times 10 = 30]$ 

- 9. Can a student consciously raise his/her employability quotient? If so, how?
- 10. Explain the types of communication.

- 11. What are the seven Cs of communication? How are they relevant to business correspondence?
- 12. How can companies foster team work among their employees?
- 13. What is communication etiquette? Why it is important in workplace?

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#### **END SEMESTER EXAMINATION - APRIL - 2022**

#### (CHOICE BASED CREDIT SYSTEM - OUTCOME BASED EDUCATION)

Programme: ALL UG PROGRAMMES

Date: 25.07.2022 Time: 2:00 PM - 4:00 PM

Course Code: 20UVEV11
Course Title: Value Education

Max. Marks: 30

	). No.	SECTION - A (5 * 3 = 15 Marks) Answer ALL Questions	CO(s)	K - Level
	1. (a)	State the Basic Characteristics of Values. மதிப்புகளின் அடிப்படைப் பண்புகளைக் கூறுக.	CO1,	K1
	, (b)	[OR] Describe Forgiveness. மன்னிப்பு - விளக்குக	·CO1	KI
	2. (a)	List out the kinds of Karma in Hindu Scriptures. இந்து வேதங்களில் உள்ள கர்ம வகைகளைப் பட்டியலிடுக	CO2	K1
	(b)	[OR] " religion promotes social harmony and gives positive goals in life"-state the reason. "மதங்கள் சமூக நல்லிணக்கத்தையும் நேர்மறை இலக்குகளையும் அளிக்கின்றன"-காரணம் கூறுக	CO2	K1
	3. (a)	Define Nehru`s part in religious secularism. மதச்சார்பின்மையில் நேருவின் பங்கு குறித்து விவரிக்க.	CO3	K2
	(b)	[OR] Explain the actions to be followed during Secularism. மதச்சார்பின்மையின் போது பின்பற்ற வேண்டிய நடவடிக்கைகளை விளக்குக.	CO3	K2
	4. (a)	Define professional values. தொழில்முறை மதிப்புகளை விளக்குக	CO4	K2
	(b)	[OR] Describe how Television stands primordial in supporting Democracy. குடியரசை ஆதரிக்கின்ற ஊடகங்களில் முதன்மையானது தொலைக்காட்சி என்பதை விவரிக்க	CO4	K2
	5. (a)	Briefly write the role of educational institutions in value formation. மதிப்புக்கல்வி உருவாக்கத்தில் கல்வி நிறுவனங்களின் பங்கை விவரிக்க	CO5	K2
		[OR]		;
	· (b)	Explain the role of family in value formation. மதிப்பு உருவாக்கத்தில் குடும்பத்தின் பங்கினை விளக்குக	CO5	K2
	Q. No.	SECTION - B . (3 * 5 = 15 Marks) Answer ANY THREE Questions	CO(s)	K - Level
A CONTRACTOR OF THE PERSON OF	6.	What do you mean by Honesty and describe anyone its theories.	CO1	K2

	நேர்மை என்றால் என்ன என்பதைக் கூறி அதன் கோட்பாடுகள் ஏதேனும் ஒன்றினை விவரிக்க		
7.	Explain the value of 'Brotherhood' in Islam. இஸ்லாம் சமயம் வலியுறுத்தும் சகோதரத்துவத்தின் மதிப்பினை விளக்குக	CO2	K2
8.	Sketch the Five levels of Political Awareness. அரசியல் விழிப்புணர்வின் ஐந்து நிலைகளை வரையறுக்க	CO3	K3
9,	Interpret the accountability and Team Spirt. பொறுப்புணர்வு மற்றும் குழுஉணர்வு – வரையறுக்க	CO4	K2
10.	Describe the role of the family in social institutions. சமூக நிறுவனங்களில் குடும்பத்தின் பங்களிப்பைப் பற்றி விவரி.	CO5	<b>K</b> 3



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END SEMESTER EXAMINATION - APRIL - 2022

(CHOICE BASED CREDIT SYSTEM - OUTCOME BASED EDUCATION)

Programme: ALL UG PROGRAMMES

Course Code: 20UEGS21 Course Tide: Environment and Gender Studies Date: 25.07.2022

Time: 10:00 am - 12:00 Noon

Max. Marks: 30

. No.	SECTION - A $(5 * 3 = 1)$	C S Combine	a arrest marian esta esta esta esta esta esta esta esta
Q. No.	Answer ALL Questions	5 Marks) CO(s	K - Level
	Define the term environment. Discuss the scope of environment.		
). (a)	சுற்றுச்சூழல் பற்றி விவரி மற்றும் அதன் தாக்கத்தைபற்றிவிவாதி	CO1	K1
(þ)	What is meant by Acid rain? அமில மழை என்றால் என்ன?	COI	KI
2 (a)	Explain food web with its significance. உணவு வலையை அதன் முக்கியத்துவத்துடன் விளக்குக	CO2	KI
(b)	[OR] List out the biotic components of anEco system. சுற்றுச்சூழல் அமைப்பில் உயிரியல் கூறுகள் பற்றி வரிசைபடுத்துக	CO2	K1
3. (a)	Write a brief note on Coal gasification, Fluidized Bed Combustionand Coal Liquefaction நிலக்கரி வாயுவாக்கம், திரவப்படுத்தப்பட்ட படுக்கை எரிப்பு, நிலக்கரி திரவமாக்கல் பற்றி குறிப்பு எழுதுக	CO3	K2
'	[OR]		· .
(b)	What is Wind energy? Discuss wind energy development in India. காற்று ஆற்றல் என்றால் என்ன? இந்தியாவில் காற்றாலை ஆற்றல் மேம்பா குறித்து விவாதி	CO3	K2
4. (a)	Classify the different types of Non Renewable energy resources.	CO4	· K2
	பல்வேறு வகையான புதுப்பிக்கமுடியாதஆற்றல்வளங்களை வகைப்படுத்த  OR	வும்	
(b)	Summarize the effects of Environmental pollution. சுற்றுச்துழல் மாசுபாட்டின் விளைவுகளை சுருக்கமாக கூறுக	CO4	. К2
5. (a)	Briefly explain any three Genders. ஏதேனும் மூன்று பாலினங்களை சுருக்கமாக விளக்குக	CO5	K2
(b)	Explain two steps to follow in order to improve the status of transgender community in you உங்கள் நாட்டில் திருநங்கைகளின் சமூகத்தின் நிலையை மேம்படுத்த பில வேண்டியஇரண்டு படி களை விளக்கு	r country. <sup>COS</sup> ாபற்ற	K2
Q. No.	SECTION - B $ (3 * 5 = 15)$	Marks)C O(s)	K - Level
	Answer ANY THREE Questions	C O(3)	K - Level
6.	What are the cause and effect of Global warming. புவி வெப்பமடைதலின் காரணம் மற்றும் விளைவு என்ன?	COI	K2
7,	Write a note on desert ecosystem. பாலைவன சுற்றுச்சூழல் அமைப்பு பற்றிய குறிப்பை எழுதவும்	CO2	, K2
8. •	Describe the composition and origin of natural gas. இயற்கை எரிவாயுவின் கலவை மற்றும் தோற்றத்தை விவரிக்கவும்.	CO3	K3
9.	What are the ecological impacts of mining? சுரங்கத்தின் சுற்றுச்சூழல் பாதிப்புகள் என்ன?	CO4	K2
10.	What is the difference between gender equity, gender equality and Women's Empowermer பாலின சமபங்கு, பாலின சமத்துவம் மற்றும் பெண்கள் அதிகாரமளித்தல் ஆகியவற்றுக்கு என்ன வித்தியாசம்	nt. CO5	К3
	· · · · · · · · · · · · · · · · · · ·		



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# END SEMESTER EXAMINATIONS – APRIL 2022

Programme: B.Sc (CS)/ B.Sc. (IT) / Course Code: 17UCSA21/17UITA21/17 Course Title: Operation Research		Date: 12.07.2022 Time: 10 am – 1 pm Max. Marks: 75
SEC	ΓΙΟΝ – A	[10  X  1 = 10]
Answer AL	L the Questio	ons.
Choose the	Correct Answ	ver.
1. Operation Research is used for	·	
[a] scientific approach	[b] de	cision making
[c] solution	[d] va	riables
2. Decision variables in O.R. models	are	
[a] controllable	[b] ur	controllable
[c] parameters	[d] co	nstants
3. Linear programming problem mus	st have a	
[a] objective (goal) that we a	im to maximiz	ze or minimize
[b] constraints (restrictions)	that we need	to specify
[c] decision variables (activit	ties) that we n	eed to determine
[d] all of the above		
4. Decision variables in an operation	n research mod	del are
[a] controllable	[b] u	ncontrollable

[c] parameters

[d] constraints

--1--

for the following transportation problem.

	$\sqrt{W_I}$	$W_2$	$W_3$	a <sub>i</sub>				
$\int F_1$	2	7	4	5				
F <sub>2</sub>	3	3	1	8				
F <sub>3</sub>	5	4	7	7				
F <sub>4</sub>	1	6	2	14				
bj	2	9	18					
[OR]								

b) Using Matrix Minima Method to find an initial basic feasible solution for the following transportation problem.

	$D_1$	D <sub>2</sub>	D <sub>3</sub>	D <sub>4</sub>	Capacity
O <sub>1</sub>	1	2	3	4	6
O <sub>2</sub>	4	3	2	0	8
O <sub>3</sub>	0	2	2	1	10
Demand	4	6	8	6	

15. a) A departmental head has four subordinates, and four tasks to be performed. The subordinates differ in efficiency, and the tasks differ intrinsic difficulty. His estimate, of the time each man would take to perform each task, is given below:

Toolsa	Men					
Tasks	Е	F	G	Н		
A	18	26	17	11		
В	13	28	14	26		
C	38	19	18	15		
D	19	26	24	10		

b) The following is the cost matrix of assigning 4 clerks to 4 key punching jobs. Find the optimal assignment if clerk 1 cannot be assigned to job 1:

Clerk	Job					
	1	2	3	4		
1	-	5	2	0		
2	4	7	5	6		
3	5	8	4	3		
4	3	6	6	2		

What is the minimum total cost?

SECTION - C

 $[3 \times 10 = 30]$ 

- 16. Explain the classifications of models by function and structure in detail.
- 17. A company makes two kind of leather belts. Belt A is high quality belt B Is of lower quality. The respective profits are Rs.4.00 and Rs.3.00 per belt. Each belt of type A requires twice as much time as a belt of type B, and if All belts were of type B, the company could make 1000 per day. The Supply of leather is sufficient for only 800 belts per day (Both A and B Combined). Belt A requires a fancy buckle and only 400 per day are Available. There are only 700 buckles a day available for belt B. Determine the optimal product mix. Formulate this as a linear Programming problem and solve it by Graphical Method.



# G.T.N. ARTS COLLEGE (AUTONOMOUS)

## DINDIGUL - 624 005

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# **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: B.Sc. (IT) Course Code: 17UITC51 Course Title: Data Communication and Computer Network	Date: 06.07.2022 Time: 2 pm – 5 pm Max. Marks :75	
SECTIO	N - A [10 X 1 = 10]	
Answer ALL t	he Questions.	
Choose the Co	rrect Answer.	
1. A computer network permits sharing	of	
[a] resources	[b] information	
[c] both a and b	[d] all of the above	
2. In a connection, more than two devices can share a single link.		
[a] Point to Point	[b] Multi Point	
[c] Primary	[d] Secondary	
3. "Parity bits" are used for which of the	e following purposes?	
[a] Encryption of data	[b] To transmit faster	
[c] To detect errors	[d] To identify the user	
4. Synchronous transmission does not h	ave	
[a] a start bit	[b] a stop bit	



--1-

[d] all of the above

[c] gaps between bytes

5. In a token ring, the stutions are o	connected to the	
[a] logical ring	[b] physical ring	g
[c] both a and b	[d] all of the above	
6. ISDN is an example of	network.	,
[a] packet switched	[b] circuit switch	hed
[c] frame relay	[d] ring based	
7. TCP is		
[a] connection oriented	[b] reliable	
[c] both a and b	[d] none of the	above
8. In link state routing, the updating packet conveys the knowledge of the router about		
[a] the whole internetwork	[b] the neighbo	orhood
[c] either a or b	[d] neither a no	or b
9. The is a repository	of information linked to	gether from points
all over the world.		
[a] WWW	[b] HTTP	
[c] HTML	[d] FTP	
10. The domain name space (tree)	is divided into	_ different sections.
[a] Two	[b] Three	
[c] Four	[d] Five	
	SECTION – B ALL the Questions.	[5  X  7 = 35]
11. a) Write a brief note on netwo	ork topologies with neat	diagram.
	[OR]	
h) Describe about wireless co	mmunication with exam	inle.

Reg. No:

- b) Describe about LAN transmission equipment with example.
- 13. a) Give a brief account on Token ring.

 $[0\varepsilon = 01 \times \varepsilon]$ 

[OR]

- b) Explain about designing the Wireless LAN Layout with example.
- 14. a) Write a note on Internetwork Protocols (IP).

[OR]

- b) Describe about User Datagram Protocol.
- 15. a) Write a brief account on DNS with example.

[OR]

b) What is WWW? Explain about World Wide Web with example.

SECTION - C

 $[3 \times 10 = 30]$ 

- 16. Elaborate note on OSI reference model.
- 17. Discuss in detail about error detection and correction.
- 18. What is FDDI? Explain in detail about FDDI with example.
- 19. Define Routing? Give a brief account on routing principles with example.
- 20. Explain in detail about Electronic mail.

12. a) Write a brief note on error control with example.

#### SECTION - C

#### $[3 \times 10 = 30]$

#### Answer Any THREE Questions.

- 16. Discuss quality and productivity factors in detail.
- 17. Explain about software cost factors.
- 18. Describe briefly about state-oriented notations.
- 19. Summarize about the fundamental design concepts
- 20. Elucidate the quality assurance in detail.



#### G.T.N. ARTS COLLEGE (AUTONOMOUS)

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#### **END SEMESTER EXAMINATIONS - APRIL 2022**

Programme: B.Sc. IT Course Code: 17UITC52 Course Title: Software Engineering	Date: 09.07.2022 Time: 2 pm – 5 pm Max. Marks :75
SEC	TION - A [10 X 1 = 10]
	L the Questions.
	Correct Answer.
1 document of source code	describes the characteristics of the code.
[a] Internal	[b] External
[c] Middle	[d] Developer
2. The ability of a program to perform a required function under stated	
condition for a stated period of tin	ne is known as
[a] Probability	[b] Reliability
[c] Accuracy	[d] Robustness
3 cost estimation first estimates the cost to develop each module.	
[a] Top-down	[b] Bottom-up
[c] Product complexity	[d] Product size
4. The provides each estimate with a system definition and estimation	
form.	
[a] estimator	[b] programmer
[c] coordinator	[d] chief programmer

Answer ALL the Questions.

11. a) Elucidate the phased life cycle model.

[OR]

b) Write a note on: Project Structure.

12. a) Illustrate the Delphi cost estimation.

[OR]

b) Explain about Staff-level estimation.

13. a) Write a note on: Algebraic Axioms.

[OR]

b) Elucidate RSL/REVS in detail.

14. a) Discuss the various types of coupling.

[OR]

b) Explain the stepwise refinement.

15. a) What is meant by walkthroughs? Explain.

[OR]

b) Explain in detail about Unit Testing.

5 specify actions to be taken when	events occurs under different sets	
of conditions.		
[a] Event table [b] Action table		
[c] State table	[d] Transaction table	
6. A is represented as a bipartite dis	rected graph.	
[a] Barry net	[b] Boehm net	
[c] Petri net	[d] John Carmack net	
7 is a fundamental characteristic	of computer software.	
[a] Information hiding	[b] Abstraction	
[c] Structure	[d] Modularity	
8 cohesion of elements occurs when	the output of one element is the	
input for the next element.		
[a] Functional	[b] Sequential	
[c] Logical	[d] Temporal	
9 is a technique for assessing the structural characteristics of		
source code.		
[a] Inspection	[b] Walkthrough	
[c] Static Analysis	[d] Quality Assurance	
10 tests are concerned with exercising	ng the internal logic of a program	
and traversing particular execution paths.		
[a] Functional	[b] Performance	
[c] Stress	[d] Structure	

#### [OR]

b) Write the features and different kinds of JDBC drivers.

#### SECTION - C

 $[3 \times 10 = 30]$ 

#### Answer Any THREE Questions.

- 16. Explain copy constructor. Write a program using copy constructor that reads complex numbers and copies that into another.
- 17. Write a Java program to find the area and perimeter of square and circle using interface.
- 18. Explain any two AWT controls in java with suitable examples.
- 19. a)Explain the life cycle of an applet.
  - b) What are the various layout managers used in Java?
- 20. Explain the steps involve to connecting Java application and Database using JDBC in detail.



[c] Constants

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## **END SEMESTER EXAMINATION -NOVEMBER2021**

Programme: B.Sc. (IT) Course Code: 17UITC53 Course Title: Java Programming	Date: Time: Max.Ma	arks :75
SECTIO	N - A	[10  X  1 = 1]
Answer ALL th	ne Questions.	
Choose the Cor	rect Answer.	
1. How many classes can be created using	ng OOPs conc	ept in Java?
[a] Only Two	[b] Only	
[c] Any number	[d] Only	100
2 are used to convert any data	a type into an	object.
[a] Classes	[b] Wrap	per classes
[c] Non-primitive datatypes	[d] Enun	neration
3. What are the features reused using Inl	neritance in Ja	ıva?
	[b] Varia	ables
[a] Methods		

[d] All the above

Given the following code segment, what is in the string referenced by \$1.

String s1 = "xy";

String s1 = "xy";

String s2 = s1;

s1 = s1 + s2 + "z";

[a] xyz

[b] xyxyz

[c] xy z

[d] xyxy z

5. Give the abbreviation of AWT

[a] Applet Windowing Toolkit

[b] Abstract Windowing Toolkit

[c] Absolute Windowing Toolkit

[d] Abstract Window Toolkit

6. Which of the following class is derived from the container class?

[a] Component

[b] Panel

[c] MenuComponent

[d] List

7. When a class extends the Thread class, it should override \_\_\_\_\_ method of Thread class to start that thread.

method of Thread class to

[a] start()

[b] init()

[c] execute()

[d] run()

8. In java, how many streams are created for us automatically?

[a] 2

[b] 3

[c] 4

[d] 5

9. Which class provides stream to read binary data such as image etc.

from the request object?

[a] ServltInputStream

[b] ServletOutputStream

[c] Both A & B

[d] None of the above

[a] Slow performance

[b]Using more memory

[c]Using less memory

[d]Better performance

#### **SECTION - B**

[5 X 7 = 35]

#### Answer ALL the Questions.

11. a) What is meant by constructor? Discuss the parameterized constructor with example.

#### [OR]

- b) Compare procedural languages with object oriented languages
- 12. a) Elaborate the concept of method overriding in Java with example.

#### [OR]

- b) Explain the use of 'this' keyword with an example.
- 13. a) Discuss about different event classes briefly.

#### [OR]

- b) Explain any TWO components of AWT.
- 14. a) Write a Java applet program to draw a human face on appletviewer.

#### [OR]

b) State the differences between thread and process.

|a| Slow performance

10. Which of the following is advantage of using IDIO connection pool?

[OR]

b) List the strategies use to ensure a successful launch.

SECTION - C

 $[3 \times 10 = 30]$ 

#### Answer Any THREE Questions.

- 16. Explain briefly about Android Application Architecture.
- 17. Explain about the Native Android Actions.
- 18. Explain briefly about Android Menu systems.
- 19. Discuss briefly about Audio Effects.
- 20. Explain about the Map View and Map Activity.

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Date: 06 07 2022

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4. Given the following code segment, what is in the string referenced by s1?

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### **END SEMESTER EXAMINATIONS – APRIL 2022**

Course Code: 17UITC61 Course Title: Android Programming		Time: 10 am – 1 pm Max. Marks :75	
S	ECTION – A	[ 10 X 1 = 10]	
Answer	ALL the Question	ns.	
Choose	the Correct Answ	er.	
1. API stand for	•		
[a] Application Programn	ning Interface		
[b] Android Programming	g Interface		
[c] Android Page Interfac	ee		
[d] Application Page Inte	rface		
2 the user has ch	anged the device's	language settings.	
[a] mcc and mnc	[b] un	iMode	
[c] orientation	[d] loc	cale	
3. Broadcast are used	to notify applicatio	ns of system or	
application events, extending	the even-driven pro	ogramming model	
between application.			
[a] Intend	[b] Re	eceivers	
[c] Ordered	[d] St	icky	

(2110)10110 mil		9. It is possible to use	for Android to track ap	. i
4. The constant sets the size of	a view to the minimum	9. It is possible to use	rer URL parameter in	links to
required to contain the contents it displays	s. [b] wrap-content	Google Play.		
[a] match-parent	[d] edit text	[a] Google Play	[b] Google Ma	
[c] text view	2 -	[c] Google Analytics	[d] Google Re	
5. The Action Bar was initially introduc	ed ina	10. The returned include	des all the position info	ormation
platform release that was focused on	providing the best user	available from the provider that s	upplied it.	•
experience.		[a] Location Provider	[b] Location (	Object
[a] Android 4.0	[b] Android 3.0	[c] Location Manager	[d] Location P	rivacy
[c] Android 11.0	[d] Android 9.0	[e] Beemin 2		
6. Android 4.0 introduced the	layout, a highly		CTION – B	$[5 \times 7 = 35]$
flexible layout designed to reduce ne	esting and simplify the	Answer Al	LL the Questions.	•
creation of adaptive and dynamic layout.		11. a) List the components of Androi	id and describes it. [OR]	
[a] Grid	[b] Frame	b) Write short notes on types of A		
[c] Linear	[d] Relative		•	
7. Widget definition resources are stored a	as XML in the	12. a) Discuss about the Layouts.		
[a] res/layout	[b] res/values		[OR]	
L 3		b) Write down the handling Sub	-Activity Results.	
[c] res/xml	[d] res/android	13. a) Describes the types of Action	Bar	
8. When a Media Player is prepared,	calls to begin	13. a) Describes the types of Fields.	[OR]	
playback of the associated media.		b) List the Tweened View anim	ation types and discus	s it.
[a] play	[b] stop	14. a) Write the components of Wio	dgets.	
[c] pause	[d] start		[OR]	
		b) Write short notes on Initializ	zing Audio Content fo	r Playback.

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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: B.Sc. IT Course Code: 17UITC62 Course Title: Software Testing	Time: 1	9.07.2022 10 am – 1 1arks : 75
SECTION Answer ALL to Choose the Co	he Questions.	10 X 1 =
1. In Software Development Life Cycle,	who is the best person t	o catch a
Defect?		
[a] Software Tester	[b] Customers	
[c] Designer	[d] Business Analy	st
2. Alpha testing is done at		
[a] Developer's end	[b] User's end	
[c] Developer's & User's end	[d] Software	
3. Functional testing is a		
[a] Test design technique	[b] Test level	
[c] SDLC Model	[d] Test type	
4. What is the key objective of Integration	n testing?	
[a] Design Errors	[b] Interface Errors	
[c] Procedure Errors	[d] Verification	

5. Acceptance testing is also known as	and the second	12. a) Describe Black Box testing.	
[a] Grey box testing	[b] White box testing	[OR]	
[c] Alpha testing	[d] Beta testing	b) Explain the Scenario testing.	
6. Which of the below testing is related to Non-functional testing?		13. a) Write a note on Non-Functional testing.	
[a] Unit Testing	[b] Black-box Testing	[OR]	
[c] Performance testing	[d] White Box testing	b) Write about Acceptance testing.	
7. The standard error of regression analys	s is known as	b) write about Acceptance testing.	
[a] average of coefficient	[b] variance of residual	14. a) Describe the methodology for Performance testing.	
[c] mean of residual	[d] average of residual	[OR]	
8. Performance testing is used to uncover	problems.	b) Classify the types of Regression testing.	
[a] performance	[b] validation	15 a) What is made and White its many	
[c] verification	[d] quality	15. a) What is metrics? Write its scope.	
9. What is the main task of test planning?		[OR]	
[a] Measuring and analyzing resu	lt	b) Write about test reporting.	
[b] Evaluating exit criteria and re	porting	$SECTION - C \qquad [3 \times 10 = 30]$	
[c] Determining the test approach		Answer Any THREE Questions.	
[d] Preparing the test specification		16. Explain in detail (i) Software Quality, (ii) Quality Assurance, (iii) Quality	
10. In size oriented metrics, metrics are developed based on the		10. Explain in detail (1) Software Quality, (11) Quality Assurance, (111) Quality	
[a] number of Functions	[b] number of user inputs	Control.	
[c] number of lines of code	[d] amount of memory usage	17. Summarise the Integration testing in software Testing.	
SECTIO	ON - B [5 X 7 = 35]	18. Explain the functional testing with examples.	
Answer ALL the Questions.		19. Execute the process for performance testing plan.	
11. a) Write a note on White Box testing.  [OR]			
		20. Explain in detail the test planning.	
b) Write about Testing, Verification and Validation.		3	
2			

SECTION - C

10. a) Describe Black Box testing.

12. a) Describe Black Box testing.

#### Answer Any THREE Questions.

- 16. Discuss the wireless MAC protocols in detail.
- 17. Explain the concept of adaptation of TCP Window.
- 18. Explain the Mobility management in GSM.
- 19. Briefly explain the concept of mobile adhoc routing protocol.
- 20. Analyze the key features and application of M-Commerce.

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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme : B.Sc. IT	Date: 13.07.2022
Course Code: 17UITE51	Time: 2 pm – 5 pm
Course Title : Mobile Computing	Max. Marks :75

SECTION – A Answer ALL the Questions.

[10 X 1 = 10]

#### **Choose the Correct Answer**

1. Collection of wireless nodes	dynamically forming a temporary
network without the use of	any existing network is called as
[a] adHoc Network	[b] Fixed Network
[c] Wifi	[d] all the above
2. TDMA, FDMA areproblem.	type of protocol to avoid medium access
[a] Conflict	[b] Conflict free
[c] Aloha	[d] Conflict oriented
3. Which one of the following te	erminology is related to Mobile IP?
[a] Network	[b] Desktop
[c] Tunnel	[d] VNET

arding packet from twitte again		
[b] Call progressing		
[d] Call packet		
chnology, which is used to browse		
·		
[b] GPRS		
[d] CDMA		
are the services of		
[b] FDMA		
[d] None of the above		
7 is an application of Adhoc network in Medical field.		
[a] Providing Educational Services		
[b] Identifying fighter plane		
[c] Getting Video Conference assistance from a surgeon		
[d] Proving traffic information		
8. DSDV Stands for		
[a] Destination sequence data vector		
[b] Data Sequence Destination Vector		
[c] Destination Sequence Distance Vector		
[d] Data Sector Destination value		
[b] Palm OS		
[d] Android		
2		

10. technology allows buying and selling of goods and services through PDAs.

[a] E- Business

[b] E-Commerce

[c] E-payment

[d] E-Selling

#### **SECTION - B**

 $[5 \times 7 = 35]$ 

#### Answer ALL the Questions.

11. a) Briefly describe the applications of mobile computing.

#### [OR]

- b) Narrate the structure of mobile computing applications.
- 12. a) Discuss the concept of DHCP (Dynamic Host Configuration Protocol.

#### [OR]

- b) Briefly discuss the process of packet delivery.
- 13. a) Comment on architecture of CGM.

#### [OR]

- b) Explain the organization of cellular network.
- 14. a) Analyze the design issues in ADHOC network.

#### [OR]

- b) Narrate the characteristics of Reactive Routing Protocol.
- 15. a) Discuss the concept of mobile payment system.

#### [OR]

b) Write the architecture and features of android OS.

#### SECTION - C

 $[3 \times 10 = 30]$ 

#### Answer Any THREE Questions.

- 16. Explain about the model of Network Security.
- 17. Describe about the Stream Ciphers.
- 18. Write about Diffie Helman key exchange.
- 19. Discuss about (i)Elements of MIME
  - (ii)MIME content Types
- 20. Explain about the Worms.



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### END SEMESTER EXAMINATIONS – APRIL 2022

Programme: B.Sc. Information Technology	Date: 13.07.2022
Course Code: 17UITE52	Time: 2 pm – 5pm
Course Title: Cryptography and Network Security	Max. Marks :75

SECTION - A

 $[10 \times 1 = 10]$ 

#### Answer ALL the Questions.

#### Choose the Correct Answer.

Choose the C	orrect Answer.	
1 refers to any action that compromises the security of information		
owned by an organisation.		
[a] Security	[b] Security mechanism	
[c] Security attack	[d] Security service	
2 is used to produce a cipher text block of equal length.		
[a] Cipher	[b] Stream ciphers	
[c] Block Cipher	[d] Feistel Cipher	
3. The simplest form of encryption has	types.	
[a] 4	[b] 3	
[c] 2	[d] 1	

oriented analysis.

#### Answer ALL the Questions

11. a) Write about the security attacks.

#### [OR]

- b) List the ingredients of Symmetric Encryption Schemes.
- 12. a) Discuss about the electronic cookbook mode.

#### [OR]

- b) What are the requirements of public key cryptography.
- 13. a) Describe about the publicly available directory.

#### [OR]

- b) Give Notes on (i) Properties of Digital signature ==>2 Marks
  - (ii) Requirements of Digital signature ==>5 Marks
- 14. a) Explain about the 5 Header fields in MIME.

#### [OR]

- b) Write about the IPSec documents.
- 15. a) Define (i) Virus==>2 Marks
  - (ii)Types of Virus ==>5 Marks

#### [OR]

b) List the steps in digital immune system operation.

- 19. Explain classes, Responsibilities and Collaborators process in object oriented analysis.
- 20. Predict the Association in Object oriented Analysis.



[c] Use case diagram

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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: B.Sc. IT Course Code: 17UITE61 Course Title: Introduction to Unified M Language	Date: 13.07.2022 Time: 10 am – 1 pm odeling Max. Marks: 75	
SECTION Answer ALL the Choose the Corre	Questions.	
1. What is the programming style of the	object oriented conceptual model?	
[a] Invariant relationships	[b] Algorithms	
[c] Classes and object	[d] Goals, often expressed in a predicate calculus	
2 .Which model in system modeling depict system?	s the dynamic behavior of the	
[a] Context Model	[b] Behavioral Model	
[c] Data Model	[d] Object Model	
3. Use case descriptions consist of interaction		
[a] Use case	[b] Actor	
[c] product	[d] Product & Actor	
4. UML diagram that shows the interaction known as	n between users and system, is	
[a] Activity diagram	[b] E-R diagram	

[d] Class diagram

1+ 100

5. technique analyses	Reg. 1	
specifications and finally into manual portage analysis	rocedures.  [b] Structured analysis and design (SADT)	-
[c] Object Oriented Analyses	[d] Structured design	
6. In object oriented design it is important to	o describe the between the	e.
associated classes in an application.		-
[a] protocol	[b] function	
[c] constraint	[d] procedure	
7 patterns are constant and inact	ive.	
[a] Generative	[b] Anti	
[c] Design	[d] Non-generative	
8. Class Responsibility Collaboration (CRC	C cards) is an important tool used i	n
the of object-oriented software	are.	
[a] Analysis	[b] Design	
[c] Development	[d] Specification	
9. We classify different objects of the program with the same properties into a		
class using		
[a] Categorization	[b] Instantiation	
[c] Decomposition	[d] Generalization	
<ul><li>10 is the process that groups data and procedures into an entity called objects</li><li>[a] Object development methodology</li></ul>		
[b] Linear programming		
[c] Structured programming		
[d] Object oriented system development		
2		

11. a) Briefly the Booch System Development Process.

#### [OR]

- b) Describe the difference between a patterns and frame work in UML.
- 12. a) Write about the Unified Modelling Language.

#### [OR]

- b) Describe UML dynamic modelling.
- 13. a) Write about use-case Driven Object -Oriented Analysis.

#### [OR]

- b) Distinguish between Static and Dynamic Model.
- 14. a) Explain the noun phase strategy for identifying tentative classes in a Problem domain.

#### [OR]

- b) Write a note on common class patterns approach.
- 15. a) Describe a super-subclass structure.

#### [OR]

b) Write a class responsibility identifying Attributes and Methods.

#### SECTION - C

 $[3 \times 10 = 30]$ 

- 16. Explain detail in RUMBAUGHET AL's Object Modelling Techniques.
- 17. Execute UML Meta Model with Diagram.

- 19. Discuss about the Errors.
- 20. Explain about the Loop optimization.



of an \_\_\_\_.

[a] implicit

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specifications and finally into manual procedures.

(a) Structured analysis

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# **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: B.Sc. IT Date: 13.07.2022 Course Code: 17UITE62 Time: 10 am - 1 pmCourse Title: Compiler Design Max. Marks: 75

#### SECTION - A [10 X 1 = 10]Answer ALL the Questions. Choose the Correct Answer. 1. The \_\_\_\_\_ uses the structure produced by the syntax analyzer to create a stream of simple instructions. [a] code optimization [b] intermediate code generator [c] error handler [d] syntax analyzer to mean any set of strings formed from some specific alphabet. [a] String [b] Substring [c] Token [d] Language 3. The sequence of productions used in some derivation is an example

[c] parser [d] terminals

[b] explicit

 $0\varepsilon = 01 \times \varepsilon$ SECTION - B

Answer ALL the Questions.

11. a) Discuss about the lexical analyzer.

[OR]

b) Construct the parser tree of IF statement.

12. a) Draw a parse tree for id + id \* id.

[OR]

b) Write short notes on Top Down parsing.

13. a) Describes about the contents of a symbol table.

[OR]

b) Define Finite Automata. Describe it.

14. a) Discuss about the semantic errors.

[OR]

b) Write down the implementation of block structured languages.

15. a) Write about Global data flow analysis. Describe it.

[OR]

b) Describes about the Direct Acyclic Graph for DAG.

SECTION - C

 $[3 \times 10 = 30]$ 

15 X7 = 351

Answer Any THREE Questions.

16. Explain briefly about the structure of a compiler.

17. Explain about the Shift Reduce parsing.

Section - C

 $[3 \times 10 = 30]$ 

#### [Answer Any THREE Questions]

16. If A, B and C are three sets, then prove that  $A \cap (B \cap C) = (A \cap B) \cap C$ 

- 17. Prove that  $(P \rightarrow (Q \rightarrow R)) \Rightarrow ((P \rightarrow Q) \rightarrow (P \rightarrow R))$
- 18. Solve T(K) 7T(K-1) + 10 T(K-2) = 6 + 8 Kwith T(0) = 1 and T(1) = 2.
- 19. If A is a square matrix of order n, then prove that  $A(adj A) = (adj A) A = |A| I_n$ , where  $I_n$  is the identity matrix of order n.
- 20. Prove that the maximum number of lines among all p point graph with no triangles is  $\left\lceil \frac{p^2}{4} \right\rceil$ .



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# **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: B.Sc.CS, IT, BCA

Paper Code: 17UCSA11/17UITA11/17UCAA11/

Course Title: DISCRETE MATHEMATICS

Date :12.07.2022 Time : 2 pm -5 pm

Max Marks: 75

#### Section - A

 $[10 \times 1 = 10]$ 

[Answer ALL the Questions]

Choose the Correct Answer.

- 1. A set of n elements has \_\_\_\_ subsets.
  - $[a] n^2$

 $[b] 2^n$ 

[c] 2n

[d] n

- 2.  $(A \cup B)' =$ \_\_\_\_\_
  - [a]  $(A \cap B)'$

[b]  $A' \cup B'$ 

[c]  $A' \cap B'$ 

[d] A'B'

3. Which of the following is not a tautology?

[a] 
$$(p \lor q) \rightarrow p$$

$$[b](p \lor (p \leftrightarrow q)) \rightarrow q$$

[c] 
$$(p \rightarrow q) \leftrightarrow (lp \lor q)$$

$$[d](p \rightarrow q) \Rightarrow (1q \rightarrow 1p)$$

4. The value of  $p \lor q =$ 

[a] p

[c]  $q \vee p$ 

[b] q [d]  $p \lor r$ 

5. An  $n^{th}$  order linear relation is a homogeneous relation if f(k) =for all k.

[a] 0

[b] 1

[c] k+1

[d] k-1

6. The If the characteristic equation is  $a^2-7a+10=0$  then the roots are----

[a] - 2.5

[b] 2,-5

[c] -2,-5

[d] 2.5

7. If A is a square matrix. Then  $A + A^T$  is

[a] skew symmetric

[b] invertible

[c] symmetric

[d] Transpose

8. The matrix [2 3 1] is a -----

[a] diagonal matrix

[b] identity matrix

[c] row matrix

[d] column matrix

9. Petersen graph is a graph.

[a] (5, 10)

[b] (15, 10)

[c](10,15)

[d](10,5)

10.A graph that contains no cycles is called \_\_\_\_\_.

[a] acyclic graph

[b] loop

[c] Peterson graph

[d] regular graph

Section - B

[5 X 7 = 35]

#### [Answer ALL the Questions]

11. a) If  $A = \{1, 2, 3, 4\}$   $B = \{2, 4, 6, 8\}$  and  $C = \{3, 4, 5, 6\}$ 

Find (i)  $A \cup (B \cup C)$  (ii)  $A \cap (B \cap C)$ 

[OR]

b) Prove that (i)  $(A \cup B)' = A' \cap B'$  (ii)  $(A \cap B)' = A' \cup B'$ 

12. a) Draw the parsing tree for the formula  $((p \rightarrow (\neg q)) \rightarrow (p \land q))$ .

b) Write down the truth table for the compound statement and state that tautologies.  $(q \lor r) \to (p \land \neg r)$ 

13 a) Solve 
$$D(K) - 8D(K - 1) + 16D(K - 2) = 0$$
 where  $D(2) = 16$ ,  $D(3) = 80$ 

b) Calculate F<sub>4</sub> of the Fibonacci number using (i) recursion (ii) iteration.

14. a) If A and B are m×n and n×r matrices respectively. Then prove that  $(AB)^T = B^T A^T$ .

b) If 
$$A = \begin{pmatrix} 1 & -7 & 8 \\ 2 & 5 & 0 \\ 11 & 4 & -20 \end{pmatrix}$$
 then find  $|A|$ .

15. a) i) Let G be a (p, q) graph all of whose points have degree k or k + 1.

If G has t > 0 points of degree k, show that t = p(k + 1) - 2q.

ii) Prove that  $\delta \leq \frac{2q}{n} \leq \Delta$ .

[OR]

b) (i) Show that every connected graph has a spanning tree.

(ii) Let G be a (p, q) connected graph, then prove that  $q \ge p - 1$ .

a) If  $A = \{1, 2, 3, 4\}$   $B = \{2, 4, 6, 8\}$  and  $C = \{3, 4, 5, 6\}$ 

20. Explain addressing modes with example.



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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: B. Sc IT Course Code: 17UITA31 Course Title: Digital Principles and Computer Organization	Date:14.07.2022 Time: 2 pm – 5 pm Max. Marks :75
SECTION Answer ALL the Choose the Corre	Questions.
1. The Excess-3 equivalent of BCD code 0	101 is
[a] 0000	[b] 0101
[c] 1000	[d] 0001
2. A binary number with four bit is called _	·
[a] Byte	[b] nibble
[c] gate	[d] megabyte
3. A full adder can be made out of	-
[a] two half address	[b] two half address & OR gate
[c] two half address &NOT gate	[d] three half address
4. The fundamental product produces an ou	atput 0 for the corresponding input
condition is	•
[a] sum of product	[b] sum of priority
[c] product of sum priority	[d] product of sum

--1--

12. a) Simplify the Boolean Equation: F = C(B+C)(A+B+C).

#### [OR]

- b) Explain about 2's complement representation with examples.
- 13. a) Illustrate the function of BCD to decimal decoder with neat diagram.

#### [OR]

- b) Write short note on.
- i) EX-OR gate and its function ii) Encoders
- 14. a) Discuss about Stored Program Organization.

#### [OR]

- b) Explain about Control Memory Organization.
- 15. a) What is meant by data transfer instruction? Explain.

#### [OR]

b) Define control word. List Encoding of Register Selection field and Encoding of ALU operation.

#### SECTION - C

 $[3 \times 10 = 30]$ 

- 16. Convert the following:
  - i)  $(0.85)_{10} = (?)_2$
  - ii)  $(23.6)_{10} = (?)_2$
  - iii)  $(175)_{10} = (?)_8$
  - iv)  $(C5E2)_{16} = (?)_2$
  - v)  $(1110100101110100)_2 = (?)_{16}$ .
- 17. Briefly explain about Arithmetic Building Blocks.
- 18. Describe the function of mux and Dmux with a diagram.

12. a) Simplify the Boolean Equation : 
$$F = C(B+C)(A+B+C)$$
.

b) Evaluate  $\int_0^{10} \frac{dx}{1+x^2}$  using Simpson's one – third rule.

15. a) Using Taylor's method solve 
$$\frac{dy}{dx} = 1 + xy$$
 with  $y_0 = 2$ .

Find (i) 
$$y(0.1)$$
 (ii)  $y = 0.2$ 

#### [OR]

b) Solve 
$$\frac{dy}{dx} = 1 - y$$
  $y(0) = 0$  using Euler's method, Find y at  $x = 0.1$  and  $x = 0.2$ . Compare the result with results of the exact solution.

#### SECTION - C $[3 \times 10 = 30]$ Answer Any THREE Questions.

- 16. Find the negative root of  $x^3-2x+5=0$  correct to three decimal places by the Newton - Raphson method.
- 17. Solve the following system of equations using Gauss Seidal iteration method. 6x+15y+2z=72; x+y+54z=110; 27x+6y-z=85.
- 18. Find the inverse of the matrix  $A = \begin{pmatrix} 2 & 1 & 1 \\ 3 & 2 & 3 \\ 1 & 4 & 9 \end{pmatrix}$  using Gaursian method.
- 19. The population of a certain town is shown in the following table.

Year	1931	1941	1951	1961	1971
Population	40.62	60.80	79.95	103.56	132.65

Find the rate of growth of the population in 1961.

20. Compute y(0.1) and y(0.2) by Runge – Kutta method of  $4^{th}$  order for the differential equation.  $\frac{dy}{dx} = xy + y^2$ , y(0) = 1.



Programme: B.Sc. IT

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#### **END SEMESTER EXAMINATIONS - APRIL 2022**

Date: 14.07.2022

Course Code: 17UITA41 Course Title : Numerical Metho	ods Time: 10 am -1 pm Max. Marks :75
Answer	SECTION – A [10 X 1 = 10] ALL the Questions. the Correct Answer.
1. $x^3$ -3x+1=0 has a root lies betw [a] 1 and 2	een [b] 0 and 1
[c] 3 and 4	[d] -1 and 0
2. One root of $x^3 - 3x + 1 = 0$ line [a] (1,2)	s betweenand [b] (-1,0)
[c] 2,3	[d] 4,5
3. Stirling's formula is the	of gauss forward and gauss backward
interpolation method	
[a] addition	[b] average
[c] difference	[d] multiplication
4. If A is diagonally dominant, t	hen the system is said to be a
[a] converge	[b] diverge
[c] dominant	[d] diagonal system



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# **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: B.Sc. IT Course Code: 17UITC11 Course Title: Fundamentals of IT and	Date:08-07-2022 Time: 2 pm -5 pm d HTML Max. Marks :75	m
SECTION Answer ALL to Choose the Co	he Questions.	
1 is the only language that con	nputer's CPU directly understands	
[a] PHP	[b] High level	
[c] Machine code	[d] Java	
2. Cray Y-MP/C90 is a		
[a] Microcomputer	[b] Minicomputer	
[c] Mainframe	[d] Supercomputer	
3. What is the full form of RAM?		
[a] Remote Access Memory	[b] Random Access Memory	
[c] Remote Assign Memory	[d] Random Assign Memory	
4. Which of the following is type of image	ge Scanner?	
[a] Flat-held	[b] Hand led	
[c] Flat bed	[d] Compact	į

[d] Cathode Race Tube

6. A network comprising of multiple topologiesis

[a] Complex

[b] Hybrid

[c] Bus

[d] Star

7. Which is used to store information usually relevant to browsers and search engines?

[a] Cookies

[b] Meta Tags

[c] Tabs

[d] Head

8. We can type the text without any change using the tag pair.

[a]

[b]

[c] <c> </c>

[d] < nc > </nc >

9. What attribute is used to specify number of rows in a table?

[a] Rownum

[b] Rownumb

[c] rn

[d] Rowspan

10. Which tag is not included in a frameset page?

[a] Body

[b] Title

[c] Div

[d] Head

SECTION - B

 $[5 \times 7 = 35]$ 

Answer ALL the Questions.

11. a) Explain the classification of computers.

[OR]

--2--

b) What are Registers? And discuss about its types.

12. a) Compare Random access memory with Read only memory.

b) Describe on digital camera and video camera.

13. a) Explain the different types of software with neat diagram.

[OR]

b) Write short notes on the following Internet Addressing

i) IP Address and ii) Domain Name

14. a) Explain the lists and its types.

[OR]

b) Discuss about different sections for designing a web page.

15. a) How to change the width of the table and cells using cells spanning in HTML? Give example program.

[OR]

b) Design a web page using frame and framesets by example.

SECTION - C

 $[3 \times 10 = 30]$ 

Answer Any THREE Questions.

16. Explain the various generations of computer.

17. Discuss on various types of secondary storage devices.

18. Illustrate the various types of network topologies.

19. How to link a text with image and pictures? Design a webpage using link tag.

20. Discuss on form design with drop down list by example.



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END SEMESTER EXAMINATIONS – APRIL 2022		
Programme: B.Sc.( Course Code: 17UIT Course Title: Progra	C21	Date: 08.07.2022 Time: 10 am – 1 pm Max. Marks: 75
	SECTION – A Answer ALL the Questions. Choose the Correct Answer.	$[10 \times 1 = 10]$
1. Floating point nun	nbers are defined in c by the keywo	ord
[a] int	[b] float	
[c] double	[d] char	
2 con	stant is sequence of characters enc	losed in double quotes.
[a] integer	[b] double	2
[c] string	[d] long	
3. The number of to	kens in the following statement	
printf("i=%d,&i=	=%x",i,&i);	
[a] .5	[b]4	
[c]10	[d]0	
4. The	will exit only a single loop.	
[a] break	[b] conti	nue
[c] next	[d] goto	

[d] goto

12. a) Write a program to find a factorial of a number using for statement.

#### [OR]

- b) Write a program to find the sum of 'n' numbers using while statement.
- 13. a) Explain about one dimensional array with example.

#### [OR]

- b) Explain gets() and puts() function with example.
- 14. a) What is recursion? Explain with example program.

#### [OR]

- b) Discuss about Structure and Union with example.
- 15. a) How pointers are used in character strings? Explain.

#### [OR]

b) Discuss file operations in c.

#### SECTION - C

 $[3 \times 10 = 30]$ 

- 16. Explain the various data types available in C.
- 17. Discuss various types of if statement in C.
- 18. Write a C program to sort an array in descending order for the following number using single dimensional array 52, 45,78,100,56,10.
- 19. Discuss about the category of functions.
- 20. Write a program to swap two numbers using pointers.

20. Explain how the function templates can be used to create a swap() and sort() functions with examples?



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5. Every element in an array should end with

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# **END SEMESTER EXAMINATIONS – APRIL 2022**

Course Title : Object Oriented Programming with C++	
SECTION – A Answer ALL the Questions.	$[10 \times 1 = 10]$
Choose the Correct Answer.	
1 is used for grouping together elements w	ith dissimilar type.
[a] Structure [b] Arrays	
[c] Function [d] Operato	or
2 refers to the names of variables, functions, ar	rays, classes etc
created by the programmer.	-
[a] identifiers [b] keywor	ds
[c] tokens [d] strings	
3. What is default access specifier for data members or n	nember functions
declared within a class without any specifier, in C++?	
[a] Private [b] Protecte	d
[c]Public [d] Depends	s on compiler
4 destroys the objects when they are no long	er required.
[a] Destructor [b] Construc	etor
[d] Delete	

	( 13/4 384	$0 = 0 \times 1$ $0 = NOILOSS$
5. To convert class type to a basic t the job	ope, it quietly calls the function to	12. a) What is class? How to define a class?  [OR]
[a] operator overloading	[b] casting operator	b) What is parameterized constructors? Explain with example.
[c] source class [d] friend function		
6. A derived class with only one base c	lass is called inheritance.	13. a) What is Operator Overloading?
[a] single	[b] multiple	[OR]
[c] multilevel	[d] hierarchical	b) Explain single inheritance with an example.
7 means one name ha	ving multiple forms.	14. a) Describe pointers to Function in C++.
[a] Inheritance	[b] data abstraction	[OR]
[c] polymorphism	[d] data hiding	b) Write about stream classes.
8. In C++, hierarchy of stream class	ses used for input and output operations are	15. a) Define the following:
declared in the header file is kno	wn as	i) Opening files using open()
[a] ios	[b] istream	ii) Detecting end-of-file
[c] iostream	[d] ostream	[OR]
9. Which of the following is not used as a file opening mode?		b) Explain: i) class templates with multiple parameters
[a] ios::trunc	[b] ios::binary	ii) overloading of template functions
[c] ios::in	[d] ios::ate	iii) non-type template arguments
10 moves get pointer	input to a specified location.	m) non type template arguments
[a] Tellg()	[b] seekg()	<b>SECTION – C</b> $[3 \times 10 = 30]$
[c] tellp()	[d] seekp()	Answer Any THREE Questions.
SE	CCTION - B [5 X 7 = 35]	16. Explain the basic concepts of object oriented programming?
	$\Delta LL$ the Questions.	17. Explain with example
11. a) Write a benefit and application of OOPS.		a) Constructors and its properties b) Destructors
[OR]		18. Discuss about Overloading Unary Operators in C++ with an example.
b) Explain the identifiers and constants?		3
	2	

#### Answer Any THREE Questions.

11 Godfe Strong Co.

- 16. Briefly explain Single Linked List and its Basic operations.
- 17. Write an algorithm and C program to evaluate a postfix expression using stack.
- 18. Describe the searching element in BST briefly.
- 19. Briefly explain about Quick Sort with example data. Also write algorithm and C program for Quick Sort.
- 20. Describe about Prims minimum spanning tree algorithm by examples.

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2. To convert class type to a basic type, it quietly calls the

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#### **END SEMESTER EXAMINATIONS - APRIL 2022**

Programme: B.Sc. IT Course Code: 17UITC32 Course Title: Data Structures	Date: 11.07.2022 Time: 2 pm – 5 pm Max. Marks : 75	
Answer ALL	ON – A [10 X 1 = 10] the Questions. orrect Answer.	
1 allocation memory ref	ers to the allocation of memory	
during compilation.		
[a] Dynamic	[b] Static	
[c] Default	[d] Free	
2. Each node contains the address of the adjacent node and the last node will		
have the address of the first node is o	alled	
[a] Single Linked List	[b] Doubly Linked List	
[c] Circular Linked List	[d] Multiple Linked List	
3 can be made to point to t	he first free location where an element	
can be added.		
[a] Push	[b] Top	
[c] Pop	[d] Create	

[b] Break First Search

[d] Breadth For Search

SECTION - B

 $[5 \times 7 = 35]$ 

#### Answer ALL the Questions.

11. a) Write the 4 basic steps involved in problem solving. Also Explain Problem Solving Strategies in data Structure.

#### [OR]

- b) Write a C program to insert an element in a Doubly Linked List after node M.
- 12. a) Explain Tower of Hanoi problem with algorithm and diagrams.

#### [OR]

- b) Write an algorithm to insert and delete an element into the queue.
- 13. a) Write about the properties of a BST.

#### [OR]

- b) Discuss about the representation of binary trees.
- 14. a) Define the following terms. Sorting, Internal Sorting, External Sorting, Stable Sorting, Unstable Sorting, Inplace Sorting, Indirect Sorting.

#### [OR]

- b) Define Shell sort. Write a C program for Shell sort.
- 15. a) Explain different types of graphs and representation of graph with example.

#### [OR]

b) Write an algorithm for breadth first search with example.

10. BFS stands for

[a] Breadth For Search

[c] Breadth First Search



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is a queue which allows insertions and deletions at both and

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#### **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: B.Sc. I T Course Code: 17UITC41 Course Title: Relational Dat Management C		m
	SECTION – A [10 X 1 = 10] er ALL the Questions. e the Correct Answer.	0]
1. A is used to de	fine the external and conceptual schema.	
[a] SQL	[b] DDL	
[c] DML	[d] TCL	
2. Dependents is an example of	aentity set.	
[a] weak	[b] Strong	
[c] Foreign	[d] Primary	
3. Expansion of IC is	_	
[a] Internal Constraints	[b] Internal Column	
[c] Integrity Constraints	[d] Integrity Column	
4. A is a varia	ble that takes on tuples of a particular relati	on
schema as values.		
[a] Tuple Variable	[b] Set variable	
[c] Schema Variable	[d] Domain Variable	

	[ (:0V.998	
	nother query embedded within it	
[a] Algebra	[b] Nested Query	
[c] Difference	[d] Set	
6. A_is a relationship between	wo attributes	
[a] Functional Depende	ncy [b] Normalization	
[c] Trigger	[d] Decomposition	
7. The set of all FDs implied by	y a given set of F of FDs is called the	
[a] Union	[b] Axiom	
[c] Closure of F	[d] Infer	
8. A join dependency is a furth	er generalization of	
[a] ABCD	[b] FD	
[c] MVDs	[d] BCD	
9means only authoriz	es users should be allowed to modify data	
· [a] Secrecy	[b] Integrity	
[c] Availability	[d] Mechanism	
10. The command	d right to insert rows with values in the na	med
column of the table named	as object.	
[a] insert	[b] drop	
[c] update	[d] delete	
	SECTION – B $[5 \times 7 =$	351
*		55]
Answ	er ALL the Questions.	
11. a) What is the importance of	of a database management system?	
	[OR]	
b) What are the steps in de	signing a database?	
	2	

- 12. a) Describe the set operations of relational algebra.
  - [OR]
  - b) Briefly explain the domain relational calculus.
- 13. a) Explain null Values..

#### [OR]

- b) Write short note on BCN7.
- 14. a) Briefly notes on procedure in PL/SQL.

#### [OR]

- b) How to handle the error in PL/SQL?
- 15. a) What is an authorization graph? Explain SQL GRANT and REVOKE handle terms of their effect on this graph.

#### [OR]

b) What are the main security considerations in designing a database application?

#### SECTION - C

 $[3 \times 10 = 30]$ 

- 16. How does conception design fit within ER-Model? With an example.
- 17. Explain the relational algebra with examples.
- 18. Explain normalization.
- 19. What is cursor? How to manage in different ways?
- 20. Describe about security for internet application.

12. a) Describe the set operations of relational algebra.

18. Discuss about any three Processor Scheduling Algorithms with example.

- 19. Illustrate any two Page Replacement Strategies in Virtual Memory Management.
- 20. Breifly explain about file allocation method with suitable example.

It nintiw babbadma vianto radiona tadi



# G.T.N. ARTS COLLEGE (AUTONOMOUS)

DINDIGUL - 624 005

(Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade)

# **END SEMESTER EXAMINATIONS – APRIL 2022**

Date:11.07.2022

Programme: B.Sc. IT Course Code: 17UITC42 Course Title : Operating System Con	cepts	Time: 10 am- 1 pm Max. Marks :75
SECTI Answer ALL	ON – A the Questions. orrect Answer.	
1. Assembly languages are developed to	o improve	of the
programming process.		
[a] Accuracy	[b] Speed	d
[c] Memory	[d] Ease	
2. To access the services of operating sy	ystem, the interf	face is provided by
[a] system calls	[b] API	
[c] library	[d] assen	nbly instructions
3. Semaphore is a/an to solve t	he critical section	on problem
[a] Hardware for a system	[b] Progr	ram for a system
[c] Integer Variable	[d] Spec	ial instruction
4 The thread creating the lines to be pri	nted is often ca	lled a
[a] spooler	[b] desp	ooler
[c] buffer	[d] proce	ess

5. A problem encountered in multitasking when a process is perpetually denied		SECTION – B	$[5 \times 7 = 35]$
necessary resources is called	·	Answer ALL the Questions.	
[a] deadlock	[b] starvation	11. a) Explain the core components of operating system.	
[c] inversion	[d] aging	21. b) 2. p. m. s.o 2010 components of operating system.	
6. Which of the following scheduling algori	thms gives minimum average	[OR]	
waiting time?		b) Write short notes on Process Control Block (PCB).	
[a] SJF	[b] FCFS	12. a) Explain about hardware solution to the mutual exclusion	problems.
[c] Round Robbin	[d] Priority	[OR]	
7replacement strategy replace	es the page that has been in the	b) Explain about Dekker's algorithm for mutual exclusion.	
system the longest.		13. a) Explain about Deadlock detection with their types.	
[a] RAND	[b] FIFO	[OR]	
[c] LRU	[d] LFU	b) Discuss about Scheduling Criteria.	
8. Effective access time is directly proporti	onal to	, and the state with	
[a] memory access time	[b] hit ratio	14. a) What are the memory management strategies designed	to obtain the
[c] page fault rate	[d] turnaround time	best possible use of main memory?	
9. The information about all files is kept in		[OR]	
[a] Swap Space	[b] Operating System	b) Explain the various characteristics of variable-partition	
[c] Separate Directory Structure	[d] Both b & c	multiprogramming.	
10. Path beginning at the root directory is o	ealled	15. a) Explain about rotational optimization.	
[a] checkpoint	[b] direct path	[OR]	
[c] circular path	[d] absolute path	b) Describe about file system in detail.	
		SECTION – C [3 X Answer Any THREE Questions.	10 = 30 ]

16. Describe the various architectures of Operating System

17. Briefly explain about semaphores.



# G.T.N. ARTS COLLEGE(AUTONOMOUS)

(Affiliated to Machinal Kamaraj University || Accredited with 'B' Grade by NAAC) END SEMESTER EXAMINATION - APRIL - 2022

(CHOICE BASED CREDIT SYSTEM - OUTCOME BASED EDUCATION)

ogramme: ALL UG PROGRAMMES

urse Code: 20UEGS21

Date: 25.07.2022

Time: 10:00 am - 12:00 Noon

Reg. No.:

ourse Title: Environment and Gender Studies

No.	CVT CVT	Max. Marks: 30			
,	SECTION - A	(5 * 3 = 15 Marks)	CO(s)	K - Level	
l. (a)	Answer ALL Questions Define the term environment. Discuss the scope of environment.	4			
	சுற்றுச்சூழல் பற்றி விவரி மற்றும் அதன் தாக்கத்தைபற்றிவிவாதி	-	CO1	K1	
(b)	What is meant by Acid rain? (OR) அமில மழை என்றால் என்ன?	,	COI	К1	
2 (a)	Explain food web with its significance. உணவு வலையை அதன் முக்கியத்துவத்துடன் விளக்குக	•	CO2	KI	
(b)	List out the biotic components of anEco system. சுற்றுச்சூழல் அமைப்பில் உயிரியல் கூறுகள் பற்றி வரிசைபடுத்துக		CO2	Κι	
3. (a)	Write a brief note on Coal gasification, Fluidized Bed Combustionand Coal Lic நிலக்கரி வாயுவாக்கம், திரவப்படுத்தப்பட்ட படுக்கை எரிப்பு, நிலக்க திரவமாக்கல் பற்றி குறிப்பு எழுதுக	quefaction	CO3	К2	
'	[OR]				
(b)	What is Wind energy? Discuss wind energy development in India. காற்று ஆற்றல் என்றால் என்ன? இந்தியாவில் காற்றாலை ஆற்றல் குறித்து விவாதி	் மேம்பாடு	CO3	K2	
4. (a)	Classify the different types of Non Renewable energy resources. பல்வேறு வகையான புதுப்பிக்கமுடியாதஆற்றல்வளங்களை வன [OR]	கப்படுத்தவும்	CO4	K2 .	
(b)	Summarize the effects of Environmental pollution. சுற்றுச்சூழல் மாசுபாட்டின் விளைவுகளை சுருக்கமாக கூறுக		CO4	Κ2	
<sup>5</sup> . (a)	Briefly explain any three Octobers.		CO5	K2	
(b) <sup>-</sup>	ஏதேனும் மூன்று பாலிலாக [OR]  Explain two steps to follow in order to improve the status of transgender comments by நிருநங்கைகளின் சமூகத்தின் நிலையை மேம்ப உங்கள் நாட்டில் திருநங்கைகளின் சமூகத்தின் நிலையை மேம்ப உங்கள் நாட்டில் திருநங்கைகளின் சமூகத்தின் நிலையை மேம்ப உங்கள் நாட்டில் திருநங்கைகளின் சமூகத்தின் நிலையை மேம்ப			K2 ,	
		(3 * 5 = 15 Mar	ks)C O(s)	K - Level	
Q. No.	Answer ANY THREE Questions		()		
SECTION -	What are the cause and effect of Global warming.  புவி வெப்பமடைதலின் காரணம் மற்றும் விளைவு என்ன?  புவி வெப்பமடைதலின் காரணம் மற்றும் விளைவு என்ன?		CO1	· K2	
	பவி வெப்பமடைதல்னே கார்கள்		CO2	K2.	
0 7	TO OIL GESON MEDIDITI TIME CONTRACTOR	•			
<b>Z</b> '.	புவி வெப்பமடைத்தில்லை புவி வெப்பமடைத்தில்லை Write a note on desert ecosystem. Write a note on desert ecosystem. பாலைவன் சுற்றுச்தூழல் அமைப்பு பற்றிய குறிப்பை எழுதவும் பாலைவன் சுற்றுச்தும்ல் அமைப்பு பற்றிய குறிப்பை எழுதவும்	. wh	CO3	К3	
B 8	Describe the competence of mining?	<b>ц</b> ш.	CO4	K2	
9	What are the spin spin spin spin spin spin spin spin	Empowerment. <b>்ளித்தல்</b>	CO5	K3	
10	What is the difference of பாலின் சமத்துவம் மற்றும் பெண்கள் அதுகாரம் பாலின் சம்பங்கு, பாலின் வித்தியாசம். பாலின் சம்பங்கு என்ன வித்தியாசம்.				



# G.T.N. ARTS COLLEGE (AUTONOMOUS)

DINDIGUL - 624 005

(Affiliated to Madurai Kamaraj University)||(Accredited by NAAC with 'B' Grade)

# END SEMESTER EXAMINATIONS – APRIL 2022

Programme : All UG programmes

Course Code: 20CCOM31/20CCCA31

Course Title: Industrial Organization

Date:13.07.2022

Time: 10 am- 12 pm

Max Marks: 30

#### SECTION - A

[5 X 3 = 15]

#### Answer ALL the Questions.

- 1. a) Define industrial organization and state its features.
  - அ) தொழில் அமைப்பின் இலக்கணத்தை கூறி அவற்றின் சிறப்பியல்புகளை எடுத்துரைக்க.

#### [OR]

- b) State the scope of industrial organization.
- ஆ) தொழில் கட்டமைப்புக்கான வருங்கால சாத்தியங்கள் பற்றி கூறுக.
- 2. a) How to enter into a new business?
  - அ) புதிய தொழிலில் எவ்வாறு உள் நுழைவது? விளக்குக.

#### [OR]

- b) List out the government support for establishing new enterprise.
- ஆ) புதிய தொழில் நிறுவனம் தொடங்குவதற்கு அரசாங்கத்தின் பங்களிப்பை வரிசைப்படுத்துக .

#### 3. a) What is ideal location?

அ) ஒரு சிறந்த இட அமைவு என்றால் என்ன?

#### [OR]

- b) Bring out the salient features of appropriate location
- ஆ) தொழில் தொடங்க தேவையான இடத்தை தேர்வு செய்வதில் உள்ள முக்கிய அம்சங்களை எடுத்து கூறுக
- 4. a) Distinguish between product layout and process layout.
  - அ) தயாரிப்பு தரவமைப்புக்கும் செயல்முறை அமைப்புக்கும் உள்ள வேறுபாட்டை விளக்குக

#### [OR]

- b) Mention the objectives of good layout.
- ஆ) ஒரு நல்ல தளவமைப்பின் நோக்கங்கள் குறித்து கூறுக.
- 5. a) List out the various types of combination.
  - அ) வணிக சேர்க்கையின் வகைகளை வரிசைப்படுத்துக.

#### [OR]

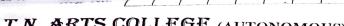
- b) Difference between Horizontal combination vs Vertical combination
- ஆ) கிடைமட்ட சேர்க்கைக்கும் செங்குத்து சேர்க்கைக்கும் உள்ள வித்தியாசத்தை கூறுக

#### SECTION - B

 $[3 \times 5 = 15]$ 

- 6. Explain the factors influencing the location of industry.

  தொழில் அமைப்பு ஏற்படுவதற்கான காரணிகளை விவரிக்க.
- 7. List out the slow grow of business combination in India.
  இந்தியாவில் மிதமான வணிக சேர்க்கைக்கான காரணிகளை வரிசைப்படுத்துக
- 8. Explain the tools used for designing layout ஒரு நல்ல தளவமைப்புகளை வடிவமைக்க பயன்படும் கருவிகளை விளக்குக
- 9. Explain the forms of business organization ஒரு வணிக சேர்க்கைகளின் வடிவங்களை விவரி.
- 10. Explain the role of modern business for the economic development of a nation.
  - ஒரு நாட்டின் பொருளாதார முன்னேற்றத்திற்கு வணிக அமைப்பின் பங்களிப்பை விவரி.



# G.T.N. ARTS COLLEGE (AUTONOMOUS)

(Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade)

## **END SEMESTER EXAMINATIONS – APRIL 2022**

Programme: All Second Year UG Course Code: 20USSS31 Course Title: Soft Skills

Date: 26.07.2022 Time: 10 am - 12 pmMax. Marks: 50

#### SECTION - A

[5 X 4 = 20]

# Answer any FIVE Questions.

- 1. Define soft skills and its kinds.
- What are SMART goals?
- Write a note on time stressors.
- Mention few methods of effective time management.
- What is brainstorming? What is it used for?
- 6. List the behavioral characteristics of assertive communication.
- 7. What is social awareness? What are the skills associated with social awareness?
- Explain civic responsibility?

#### SECTION - B

 $[3 \times 10 = 30]$ 

- 9. Self esteem and positive attitude play a vital role in present scenario -
- 10. What are SMART goals? How does SMART goal setting work?

- 12. Elaborate the five elements that define Emotional Intelligence.
- 13. What is Sustainable development and how is conservation of natural resources possible?



# G.T.N. ARTS COLLEGE (AUTONOMOUS)

(Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade)

# **END SEMESTER EXAMINATION – APRIL 2022**

Programme: All Second Year UG

Course Code: 20USSS41 Course Title: Soft Skills II Date: 26.07.2022

Time: 2 pm – 4 pm Max. Marks: 50

#### SECTION - A

[5 X 4 = 20]

#### Answer any FIVE Questions.

- 1. Define employability skills.
- 2. Why CV is important in acquiring a job?
- 3. Why communication and interpersonal relations are important in workplace?
- 4. Describe paralanguage.
- 5. List some important rules for email etiquette.
- 6. Discuss the significance of team spirit.
- 7. State the importance of grooming in workplace.
- 8. What do you mean by workplace etiquette?

#### SECTION - B

 $[3 \times 10 = 30]$ 

- 9. Can a student consciously raise his/her employability quotient? If so, how?
- 10. Explain the types of communication.

- 11. What are the seven Cs of communication? How are they relevant to business correspondence?
- 12. How can companies foster team work among their employees?
- 13. What is communication etiquette? Why it is important in workplace?



# Reg. No.: G.T.N. ARTS COLLEGE(AUTONOMOUS)

(Affiliated to Madurai Kamaraj University || Accredited with 'B' Grade by NAAC) END SEMESTER EXAMINATION - APRIL - 2022

(CHOICE BASED CREDIT SYSTEM - OUTCOME BASED EDUCATION)

<sub>rogramme</sub>	:	ALL	UG	P	ROGR	AMME
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Code: 20UTAL11

<sub>ெயாse</sub> Title : தற்காலக் கவிதையும் சிறுகதையும்

Date: 01.07.2022

Time: 2:00 PM - 5:00 PM

The state of the s	Max. Marks: 60			
Q. No.	SECTION - A Answer ALL Qu	(10 * 1 = 10 Marks)	CO(s)	K -
1.	கீழ்க்கண்டவற்றுள் நாமக்கல் கவிஞ	ിൽ ക്കിത്യം <sub>അല</sub>		Level
	_ மாணவனுக்கு	2.எல்லாம் நானே	CO1	K1 .
	3. <b>தமிழின் இனிமை</b>	4.காணி நிலம் வேண்டும்		
2.	தொடுவானம் தான் எல்லை என்று தா கூறுகிறார்?	ராபாரதி யாரிடம்	CO1	K1
	டஇளைஞர்களிடம்	2. <b>குழந்தைகளிடம்</b>		
	3.தோழர்களிடம்	4.சமூகத்திடம்		
3.	"கண்ணீரின் வெப்பத்தால் என் கவின முடிந்து விடுகிறது" என்று கூறியவர்	த முழுமை பெறாமலே யார்?	CO2	- K1
	்.நா.காமராசன்	2. <b>សំ</b> ព្រា		•
	3 மு மேத்தா	4.அப்துல் ரகுமான்		
4.	தோசை கவிதை யாருடைய வாழ்வி காட்டுகின்றது?	யலைப் படம் பிடித்துக்	CO2	Κl
	. <b>ஆண்கள்</b>	2.பெண்கள்		
	3. <b>குழந்தைகள்</b>	4.திருநங்கைள்	•	
5.	பொன்னகரம் சிறுகதையின் மையக்	கரு எது?	CO3	Κl
	் குழந்தை தொழிலாளர் பிரச்சனை	2.சாதிப்பாகுபாடு		
	3.பொருளாதார ஏற்றத்தாழ்வு	4.வறுமை		
6.	ஒர் உல்லாசப் பயணம் சிறுகதையில் சென்றனர்?		CO3	K1
	்.கொடைக்கானல்	2.கன்னியாகுமரி		
open produced in the control of the	3, <b>ഉണ</b> ് la	<sub>4</sub> குற்றாலம்	CO4	K1
7.	கீழ்கண்டவற்றுள் ஐகாரக் குறுக்கம்	எது?	C04	153
	1.சார்பு	2. சங்கு		
	3 <b>(9.00)</b>	4.கொக்கு	CO4	K1
8.	். இண்டயன் வியங்கோள் வினைமுற்றில் வல்லி சான்றினைத் தேர்வு செய்க	ினம் மிகாது என்பதற்குச்		

		. 1	
்.நாடு கண்டான்	் வாழ்க் தமிழ்		
3. <b>&amp;</b> n() கட்டு	4. <b>குடி தண்ணி</b> ர்		
பூங்கொடி. வீர்காவியம் போன்ற நூல் சுட்டுக <sub>்</sub>	களின் ஆசிரியர் பெயரைச்	CO5	ΚI
்.முடியரசன்	2.கண்ணதாசன்		
3.வாணிதாசன்	4. <b>பாரதிதாசன்</b>		
தாகூரின் வங்க மொழிக் கதைகளை த யார்?	தமிழில் மொழிபெயர்த் <u>த</u> வர்	CO5	K1
்.சுஜாதா	2.சி.சு.செல்லப்பா		
3.பாரதியார் .	4.அகிலன்		
SECTION - B Answer ALL Que	(5 * 4 = 20 Marks)	CO(s)	K - Level
சிறுவன் புத்தரைக் கண்ட நிகழ்வை எ		COI	K2
OR]	<b>.</b>		
தாராபாரதி குறிப்பிடும் தன்னம்பிக்கை விளக்குக	க, சுயமுன்னேற்றம் குறித்து	CO1	K2
'ஓடு' ஓடு' சங்கிலி' கவிதையில் சிற்பி சிறப்புகளைப் பட்டியலிடுக	ி உணர்த்தும் தாய்மையின்	CO2	K2
[OR]		CIOO	770
தமிழச்சி தங்கப்பாண்டியனின் 'புன்ன கவிதையின் மையக்கருத்தை எடுத்து		CO2	K2
பி.எஸ்.இராமையாவின் சிறுகதை உல தொகுத்துரைக்க.	<b>னர்த்தும் கருத்தை</b> த்	CO3	K2
[Oß]	· ·		
ஓர் உல்லாசப் பயணம் சிறுகதையின்		CO3	K2
சார்பெழுத்துக்களில் அளபெடை பற்றி		CO4	K1
OR மொழிக்கு முதலில் வரும் எழுத்துக்க சான்றுடன் விவரிக்க	•	CO4	K1
த இருபதாம் நூற்றாண்டு மரபுக்கவிஞர் பாரதிதாசன் ஆகியோரின் கவித்திறம்		CO5	Κ۱
OR			
சிறுகதை இலக்கிய வளர்ச்சிக்குப் புது குறித்து எடுத்துக்காட்டுக?	மைப்பித்தனின் பங்களிப்புக்	CO5	KI.
SECTION - C Answer ANY THREE	(3 * 10 = 30 Marks) E Questions	CO(s)	K - Level
செய்யும் தொழிலே தெய்வம் கவிதை தெளிவுபடுத்துக	ப் பொருளைத்	CO1	K2
தேசப்பிதாவிற்கு ஒரு தெருப்பாடகனி சுட்டுகின்ற சமூகக் கருத்துக்களைத் ெ	ின் அஞ்சலி <sup>.</sup> கவிதை <sup>1</sup> தாகுத்துரைக்க	CO2	K2
நாற்காலியும் அதன் பயன்பாடும் குறி	4	CO3	К3
் மொழி முதல் எழுத்துக்கள் பற்றி விவ	பரிக்க		K2
		CO4	11/4

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# G.T.N. ARTS COLLEGE(AUTONOMOUS)

(Affiliated to Madurai Kamaraj University || Accredited with 'B' Grade by NAAC)

# END SEMESTER EXAMINATION - APRIL - 2022

(CHOICE BASED CREDIT SYSTEM - OUTCOME BASED EDUCATION) Date: 25.07.2022

<sub>gram</sub> me	: ALL UG PROGRAMMES	Date: 25.07.2022 Time: 2:00 PM - 4:00 PM Max. Marks: 30			
ourse Cou	C. A CALL OF THE PROPERTY OF T	5 Marks)		K - Level	
No.	Answer ALL Questions	•	CO1	K1	
(8)	<sub>State the</sub> Basic Characteristics of Values. மதிப்புகளின் அடிப்படைப் பண்புகளைக் கூறுக. [OR]		.coı	KI	
	<sub>Describe</sub> Forgiveness. மன்னிப்பு - விளக்குக		CO2	K1	
. (=)	List out the kinds of Karma in Hindu Scriptures. இந்து வேதங்களில் உள்ள கர்ம வகைகளைப் பட்டியலிடுக [OR]			77.1	
(b)	"religion promotes social harmony and gives positive goals in life"-state the rea "மதங்கள் சமூக நல்லிணக்கத்தையும் நேர்மறை இலக்குகளையும் அளிக்கின்றன"-காரணம் கூறுக	ison.	CO2	K1	
(a)	Define Nehru's part in religious secularism. மதச்சார்பின்மையில் நேருவின் பங்கு குறித்து விவரிக்க.	· · · · · · · · · · · · · · · · · · ·		W O	
(b)	Explain the actions to be followed during Secularism. மதச்சார்பின்மையின் போது பின்பற்ற வேண்டிய நடவடிக்கைகளை விளக்குக	. •	CO3	K2 K2	
. (a)	Define professional values. தொழில்முறை மதிப்புகளை விளக்குக.		د د د د د د د د د د د د د د د د د د د	102	
(b)	[OR]  Describe how Television stands primordial in supporting Democracy. குடியரசை ஆதரிக்கின்ற ஊடகங்களில் முதன்மையானது தொலைக்காட்சி என்பதை விவரிக்க	، لرَ	CO4	K2	
<sup>5</sup> . (a)	Briefly write the role of educational institutions in value formation. மதிப்புக்கல்வி உருவாக்கத்தில் கல்வி நிறுவனங்களின் விவரிக்க	பங்கை	CO5	K2	
*	[OR]		CO5	K2	
. (p)	Explain the role of family in value formation. மதிப்பு உருவாக்கத்தில் குடும்பத்தின் பங்கினை விளக்கு	<b>்</b> க	( 0 )		
Q. No.	SECTION - B .(3 * 5	5 = 15 Mar	s) CO	(s) K -	

What do you mean by Honesty and describe anyone its theories.

	்நரமை என்றால் என்ன என்பதைக் கூறி அதன் கோட்பாடுகள் ஏதேனும் ஒன்றினை விவரிக்க		
7.	Explain the value of 'Brotherhood' in Islam. இஸ்லாம் சமயம் வலியுறுத்தும் சகோதரத்துவத்தின் மதிப்பினை விளக்குக	CO2	K
8.	Sketch the Five levels of Political Awareness. அரசியல் விழிப்புணர்வின் ஐந்து நிலைகளை வரையறுக்க	CO3	K3
9.	Interpret the accountability and Team Spirt. பொறுப்புணர்வு மற்றும் குழுஉணர்வு – வரையறுக்க	CO4	K2
10.	Describe the role of the family in social institutions. சமூக நிறுவனங்களில் குடும்பத்தின் பங்களிப்பைப் பற்றி விவரி	CO5	<b>K</b> 3
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