

G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) EVEN SEMESTER [2021-22]

INTERNAL ASSESSMENT TEST – I

Class : II BCA (A & B) Date: 20-04-2022

Paper Code : 17UCAC42 Time: 10.00-11.30 am

Title of the Paper : PDPMS

Title of the Paper : RDBMS Max Marks: 30 Section A $[6 \times 1 = 6]$ [Answer **ALL** the questions] 1. Who is responsible for ensuring security in a DBMS? a) Developer b) Programmer c) Database Administrator d) End-User 2. The other name for conceptual schema is ______. a) Logical level b) external level c) Physical level d) view level 3. Which of the following commands is used to modify a column inside a table? a) Drop b) Update C) Alter d) Set 4. Primary Key does not allow _____ value. a) Integer b) String c) Null d) Decimal 5. To Select a row in relational algebra uses _____ symbol. a) Π b) σ c) p d) / 6. The join condition is identical to the _____ Condition. a) Selection b) Projection c) Division d) Intersection **Section B** $[2 \times 7 = 14]$ [Answer **ALL** the questions] [OR] 7. a) Discuss the advantages of a DBMS in detail. b) Describe the different levels of abstraction? 8. a) What is Trigger? Explain with example. [OR] b) Explain Union, Intersection and set difference with example. **Section C** $[1 \times 10 = 10]$ [Answer ANY ONE question] 9. Explain the architecture of DBMS.

10. Describe Tuple Relational Calculus in detail.

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G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) **EVEN SEMESTER [2021-2022]**

INTERNAL ASSESSMENT TEST - II

Class	: III BCA	(A&B)	Date: 18.06.2022
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Paper Code :17UCAC61 Time:

Title of the Paper :Python Programming Max Marks: 30

6

1. The bloc	ck of sta		Answer Al	Section A LL the Que starts after		6X1=
a)	: b)	;	c) def	d) ()		
2. What is	the outp	out of len('	Python Prog	ramming")?		
[a] 1	17	[b] 18		[c] 19	[d] 20	
3. Which o	perator	r is used to	access the v	alues in diction	ary?	
[a] {	} [b] ()	$[c] \Leftrightarrow [d]$	[]			
4. Which n	nethod i	s used to d	lisplay the cu	rrent working	directory?	
[a] r	nkcwd() [b] chcw	d() [c] getcw	d() [d] setcwd()	

5. Which keyword is used to catch the exception thrown by try block?

[a] except [b] try [c] import [d] catch

6. The _____ function takes an object as argument.

[a] dir() [b] help() [c] int() [d] range()

Section B

Answer ALL the following questions 2X7=14

- 7. a) How will you handle date and time in python? [OR]
 - b) Write a program that demonstrates the built in functions in python.
- 8. a) Describe the operations that could be performed on Dictionaries in Python. [OR]
 - b) What is string formatting operator? Write any 4 built-in string functions.

Section C

Answer ANY one of the questions

1X10=10

- 9. Briefly explain the types of arguments used to invoke a function.
- 10. Define Exception. How could we handle the exceptions in python?

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G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) **EVEN SEMESTER [2021-2022]** INTERNAL ASSESSMENT TEST - II

Class : III BCA (A&B) Date:18.06.2022

Paper Code :17UCAC61 Time:

Title of the Paper : Python Programming Max Marks: 30

Section A

Answer ALL the Questions 6X1=61. The block of statement for the function starts after _ a): b); c) def d) () 2. What is the output of len("Python Programming")? [a] 17 [b] 18 [c] 19 [d] 20 3. Which operator is used to access the values in dictionary?

- - [a] { } [b] () [c] <> [d] []
- 4. Which method is used to display the current working directory?
 - [a] mkcwd() [b] chcwd() [c] getcwd() [d] setcwd()
- 5. Which keyword is used to catch the exception thrown by try block?
 - [a] except [b] try [c] import [d] catch
- 6. The _____ function takes an object as argument.
 - [a] dir() [b] help() [c] int() [d] range()

Section B

Answer ALL the following questions 2X7=14

- 7. a) How will you handle date and time in python? [OR]
 - b) Write a program that demonstrates the built in functions in python.
- 8. a) Describe the operations that could be performed on Dictionaries in Python. [OR]
 - b) What is string formatting operator? Write any 4 built-in string functions.

Section C

Answer ANY one of the questions

- 9. Briefly explain the types of arguments used to invoke a function.
- 10. Define Exception. How could we handle the exceptions in python?

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G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) EVEN SEMESTER [2021-2022]

INTERNAL ASSESSMENT TEST - I

Class : III BCA (A&B) Date: 20.04.2022

Paper Code :17UCAC62 Time:

Title of the Paper :Software Testing Max Marks: 30

Section A Answer ALL the Ouestions 6X1=6					
This type of performance testing wherein competitive products are compared is called					
a) Balance Key Resources b) Collecting Requirements c) Acceptance Criteri					
d) Bench Making					
2 helps in understanding how to system can behave under extreme and re	alistic				
Situations.					
a) Stress Testing b) Acceptance Testing c) Scalability Testing d) Performance	Testing				
3. The Process of removing some unwanted values in a set is called					
a) Performance testing b) Noise Removal c) Capacity Planning d) Test Removal.					
4. There aretypes of Regression Testing.					
a) 2 b) 4 c) 7 d) 8					
5 What is meant by TCDB?					
a) Test case Digital Base b) Tape Configuration Database c) Test Case Data Base					
d) Transport Classification database.					
6 Should increases usability, efficiency, maintainability and probability of the					
product.					
a) Performance Testing b) Non – Functional Testing c) Test Planning d) Test Rep	orting.				
Section B					
Answer ALL the following questions 2X'	7=14				
7. a) Define Stress Testing and Explain With an Example. [OR]					
b)Illustrate Performance Testing in detail .					
8 a) Describe and Explain about Test Management [OR]					
b) Explain the Tools for Performance testing.					
Section C					
Answer ANY one of the questions 9. Explain briefly about Non – Functional Testing.					
10. State and Describe about Test Process in detail.					

Reg.No:				
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G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
EVEN SEMESTER [2021-2022]
INTERNAL ASSESSMENT TEST - I

: **III BCA (A&B)** Date:20.04.2022

Paper Code :17UCAC62 Time:

Title of the Paper :Software Testing Max Marks: 30

	Se	ection A			
		the Questions			6X1=6
 This type of performance 	e testing w	herein competitive pr	roducts ar	e compare	ed is called
a) Balance Key Resource	ces	b) Collecting Requ	irements	c) Accep	otance Criteria
d) Bench Making					
2 helps in	understan	ding how to system of	can behav	e under ex	treme and realistic
Situations.					
a) Stress Testing	b) Accep	ptance Testing c) Sca	alability T	esting d) I	Performance Testing
3. The Process of removing	some unv	vanted values in a set	t is called_		•
a) Performance testing	b) Noise	Removal c) Capacit	y Plannin	g d) Test l	Removal.
4. There arety	pes of Reg	gression Testing.			
a) 2 b) 4	c) 7	d) 8			
5 What is meant by TCDB?					
a) Test case Digital Base	b) Tape	Configuration Datab	ase c) Tes	st Case Da	ita Base
d) Transport Classification					
6 Should	increases u	sability, efficiency,	, maintain	ability and	d probability of the
product.					
a) Performance Testing	b) Non-	- Functional Testing	c) Test	Planning	d) Test Reporting.
		Section B			
		llowing questions			2X7=14
7. a) Define Stress Testing a	and Explain	n With an Example.	[OR]		
b)Illustrate Performance	Testing in	detail.			
8 a) Describe and Explain a	bout Test	Management [OR]			
b) Explain the Tools for I	Performano	ce testing.			

Section C

Answer ANY one of the questions 1X10=10

- 9. Explain briefly about Non Functional Testing.
- 10. State and Describe about Test Process in detail.

Reg.No:



G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) **EVEN SEMESTER [2021-2022]**

INTERNAL ASSESSMENT TEST - II

Class III BCA	(A&B)	Date: 20.06.2022
Paper Code	:17UCAC62	Time: 10-11
Title of the Paper	:Software Testing	Max Marks: 30

	5	Section A	
A	Answer ALL	the Questions	6X1=6
 This type of perform 	ance testing v	wherein competitive products a	re compared is called
a) Balance Key Res	ources	b) Collecting Requirements	c) Acceptance Criteria
d) Bench Making			
2 help	s in understa	nding how to system can behave	ve under extreme and realistic
Situations.			
a) Stress Testing	b) Acco	eptance Testing c) Scalability	Testing d) Performance Testing
3. The Process of remo	ving some un	wanted values in a set is called	<u> </u>
a) Performance test	ing b) Nois	se Removal c) Capacity Planni	ng d) Test Removal.
4. There are	types of Re	egression Testing.	
a) 2 b) 4 c) 7	d) 8	
What is meant by TCI	OB?		
a) Test case Digital I	Base b) Tape	e Configuration Database c) Te	est Case Data Base
d) Transport Classifi	cation databa	se.	
6 Sho	uld increases	usability, efficiency, maintain	nability and probability of the
oroduct.			
a) Performance Testin	ng b) Non	– Functional Testing c) Test	Planning d) Test Reporting.

Section B

Answer ALL the following questions

2X7=14

- 7. a) Define Stress Testing and Explain With an Example. [OR]
 - b)Illustrate Performance Testing in detail.
- 8 a) Describe and Explain about Test Management.. [OR]
 - b) Explain the Tools for Performance testing.

Section C

Answer ANY one of the questions

1X10=10

- 9. Explain briefly about Non Functional Testing.
- 10. State and Describe about Test Process in detail.

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G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade)

EVEN SEMESTER [2021-2022] INTERNAL ASSESSMENT TEST - II

: III BCA (A&B) Date:20.06.2022 Class :17UCAC62 Paper Code Time: 10-11 :Software Testing Title of the Paper Max Marks: 30

Section A

Ansv	6X1=6	
1. This type of performance	testing wherein competitive products ar	e compared is called
a) Balance Key Resource	tes b) Collecting Requirements	c) Acceptance Criteria
d) Bench Making		
2 helps in	understanding how to system can behave	e under extreme and realistic
Situations.		
a) Stress Testing	b) Acceptance Testing c) Scalability T	esting d) Performance Testin
3. The Process of removing	some unwanted values in a set is called_	·
a) Performance testing	b) Noise Removal c) Capacity Plannin	g d) Test Removal.
4. There arety	pes of Regression Testing.	
a) 2 b) 4	c) 7 d) 8	
5 What is meant by TCDB?		
a) Test case Digital Base	b) Tape Configuration Database c) Tes	st Case Data Base
d) Transport Classification	on database.	
6 Should	ncreases usability, efficiency, maintain	ability and probability of the
product.		
a) Performance Testing	b) Non – Functional Testing c) Test I	Planning d) Test Reportin

Section B

Answer ALL the following questions

2X7=14

- 7. a) Define Stress Testing and Explain With an Example. [OR] b)Illustrate Performance Testing in detail.
- 8 a) Describe and Explain about Test Management.. [OR]
 - b) Explain the Tools for Performance testing.

Section C

Answer ANY one of the questions

- 9. Explain briefly about Non Functional Testing.
- 10. State and Describe about Test Process in detail.



10. Discuss about HQL.

G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) EVEN SEMESTER [2021-22] INTERNAL ASSESSMENT TEST – I

Programme : III BCA (A&B) Date: 21.04.2022
Course Code : 17UCAE61 Time: 10 to 11 am
Course Title : BIG DATA ANALYTICS Max Marks: 30

Section A [Answer ALL the Questions] 6X1=61. Which of the following describes the map function. C)Relational Data base A) Key pairs B)Indexing D)Clusters. _ is hugely popularized by web services developed utilizing SOAP Principles. B)XML C)Java script D)JSON A)HTML 3. Which of the following term is used to denote the small subsets of a large file created by **HDFS** B)Data node C)Blocks A)Name node D)Namespace [] 4. ____has no support for ACID properties of transactions. B) SOL A) NoSOL C)NewSOL D)All 5. ----- is a tool used to transfer data between hadoop and relational database B)hive C)pig latin D)oozie A)sqoop 6. Hive also support custom extensions written in ------B) Java A) C# C) C D) C++ **Section B** 2X7=14[Answer ALL the following] 7. a) What is NoSQL? What are the advantages of NoSQL? (Or) b) Discuss about Hive data types. 8. a) What are the distributed computing challenges of Hadoop. b) List the main feature of MapReduce. **Section C** [Answer ANY one of the following] 1X10=10 9. Write a short note on the Hadoop ecosystem and HDFS archiecture.



10. Discuss about HQL.

G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) EVEN SEMESTER [2021-22] INTERNAL ASSESSMENT TEST – II

Programme : III BCA (A&B) Date: 21.06.2022
Course Code : 17UCAE61 Time: 10 to 11 am
Course Title : BIG DATA ANALYTICS Max Marks: 30

DATA ANALYTICS		Max Marks: 30
		6X1=6
ing describes the map fu	unction.	
B)Indexing	C)Relational Dat	ta base D)Clusters
v popularized by web se	ervices developed utiliz	zing SOAP Principles.
B)XML	C)Java script	D)JSON
ing term is used to deno	te the small subsets of	a large file created by
B)Data node	C)Blocks	D)Namespace []
		D) A 11
B) SQL	C)NewSQL	D)All
	_	
B)hive	C)pig latin	D)oozie
ustom extensions writte	n in	
B) Java	C) C	D) C++
Section 1	В	
[Answer ALL t	he following]	2X7=14
What are the advantages	s of NoSQL?	
ve data types.		
ributed computing challe	enges of Hadoop.	
ure of MapReduce.		
		1X10=10
on the Hadoop ecosyster	n and HDFS archiectur	re.
	ing describes the map for B)Indexing by popularized by web so B)XML ing term is used to denote B)Data node t for ACID properties of B) SQL o transfer data between B)hive ustom extensions writte B) Java Section I [Answer ALL t] What are the advantages we data types. ributed computing challed ure of MapReduce. Section (Answer ANY of Se	Section A [Answer ALL the Questions] ing describes the map function. B)Indexing C)Relational Data by popularized by web services developed utiliz B)XML C)Java script ing term is used to denote the small subsets of B)Data node C)Blocks t for ACID properties of transactions. B) SQL C)NewSQL o transfer data between hadoop and relational of B)hive C)pig latin ustom extensions written in B) Java C) C Section B [Answer ALL the following] What are the advantages of NoSQL? we data types. ributed computing challenges of Hadoop.

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

EVEN Semester (2021 – 2022)

OBE Regulation – 2020

Continuous Internal Assessment Test – I

Programme: BCA Semester: IV

Class: II BCA Date: 19.04.2022

Course Title: **C#.NET Programming** Time:10 – 11.30

Course Code: 20UCAC41 Max. Marks: 30

CO1	Manipulate properties of Class in C#.Net
CO2	Infer Manipulation of Strings and Files in C#

Qn. No.	Section – A Answer ALL the Questions (6 x 1 = 6)	CO(s)	K – Level
1	The events that represent occurrences related to the browser window are	CO1	K1
	1.Window 2.Element 3.Display 4.Handlers		
2	To delete a record from the Dataset, we use the	CO1	K1
	1.Remove 2.Delete() 3.Delete 4.removeI()		
3	SQL Server variant is called T-SQL. The T stands for	CO1	K1
4	At the time of table creation,is the kind of data going into a table column 1.Allow Nulls 2.Primary key 3.Length 4.Data Type	CO1	K1

5	If you want to fill your polygon, the method is used. 1.PolygonFill() 2.Fillshape() 3.FillPolygon() 4.ShapeFill()	CO1	K1
6	A class member declared protected becomes member of subclass of member. 1.public 2.private 3.protected 4.static	CO1	K1

Qn.	No.	Section – B Answer ALL the Questions (3 x 4 = 12)	CO(s)	K – Level	
	A	Relate the concept of Hash tables.	CO1	K1	
7		OR			
	В	Demonstrate about sorting a list.	CO1	K1	
	A	Illustrate how to open a Text file in C#.	CO1	K1	
8		OR			
0	В	Apply the concept how to Copy a content to the file.	CO2	K2	
	A	Discuss about to Create Database project.	CO2	K2	
9		OR			
	В	Classify the usage of Data base Navigation Buttons.	CO2	K2	

Qn.	No.	Section – C Answer ALL the Questions (2 x 6 = 12)	CO(s)	K – Level	
10	A	Explain in detail about C#.Net program for	CO1	K1	
		inheritance.			
		OR			
	В	Explain about Method Overloading.	CO1	K1	
11	A	Explain how to Create a Compact SQL Server	CO2	K2	
		Database			
	OR				
	В	Write a C#.Net coding to update a record	CO2	K2	

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

EVEN Semester (2021 – 2022) OBE Regulation – 2020

Continuous Internal Assessment Test – II

Programme: BCA Semester: IV

Class: II BCA Date: 18.06.2022

Course Title: **C#.NET Programming** Time:1.00 to 2.30pm

Course Code: 20UCAC41 Max. Marks: 30

CO3	Manipulate properties of Class in C#.Net
CO4	Infer Manipulation of Strings and Files in C#
CO5	Use and connect to Sql Server Express Database

Qn. No.	Section – A Answer ALL the Questions $(6 \times 1 = 6)$	CO(s)	K – Level
1	The events that represent occurrences related to the	CO3	K1
	browser window are		
	1.Window 2.Element		
	3.Display 4.Handlers		
2	To delete a record from the Dataset, we use the method. CO5 K1	CO3	K1
	1.Remove 2.Delete()		
	3.Delete 4.removeI()		
3	SQL Server variant is called T-SQL. The T stands for CO5 K1	CO4	K1
	1.Transaction 2.Transfer		
	3.Transact 4.Transparent	904	****
4	At the time of table creation,is the kind of	CO4	K1
	data going into a table		
	1.Allow Nulls 2.Primary key		
	3.Length 4.Data Type		
5	If you want to fill your polygon, the method	CO5	K1
	is used.		
	1.PolygonFill() 2.Fillshape()		
	3.FillPolygon() 4.ShapeFill()		

6	A class member declared protected becomes member of subclass of member. 1.public 2.private 3.protected 4.static	CO5	K1

Qn.	No.	Section – B Answer ALL the Questions (3 x 4 = 12)	CO(s)	K – Level		
	A	Relate the concept of Hash tables.	CO3	K2		
7		OR				
	В	Demonstrate about sorting a list.	CO3	K2		
	A	Illustrate how to open a Text file in C#.	CO4	К3		
8		OR				
0	В	Apply the concept how to Copy a content to the file.	CO4	К3		
	A	Discuss about to Create Database project.	CO5	K2		
9		OR				
	В	Classify the usage of Data base Navigation Buttons.	CO5	K2		

Qn.	No.	Section – C Answer ALL the Questions (2 x 6 = 12)	CO(s)	K – Level	
10	A	Explain in detail about C#.Net program for	CO3	K3	
		inheritance.			
		OR			
	В	Explain about Method Overloading.	CO4	K4	
11	A	Explain how to Create a Compact SQL Server	CO5	K3	
		Database			
	OR				
	В	Write a C#.Net coding to update a record	CO5	K3	



EVEN Semester (2021 – 2022)

OBE Regulation – 2020

Continuous Internal Assessment Test – II

Programme: BCA Semester: IV

Class: II BCA Date: 20.06.2022

Course Title: **RDBMS** Time:10-11

Course Code: 20UCAC42 Max. Marks: 30

CO3	Working with Tables
CO4	PL/SQL
CO5	PL/SQL Composite Data Types

Qn. No.	Sectio Answer ALL the Q		CO(s)	K – Level
1	The function performs case conversion or		CO3	K1
	character manipulation.			
	A. Number	B. Max		
	C. Average	D. Upper		
2	The function pe	rforms an operation on a	CO3	K1
	group of rows and returns o	ne result.		
	A. Date	B. Sum		
	C. Aggregate	D. Math		
3	is a block struc	ctured language.	CO4	K1
	A. SQL	B. PL/SQL		
	C. Procedure	D. Oracle		
4	ROLLBACK is a	language statement.	CO4	K1
	A. DML	B. DDL		
	C. DCL	D. TCL		
5	is an exar	nple of composite data	CO5	K1
	types.			
	A. Package	B.Varray		
	C. Trigger	- C		
6	A trigger is based on a	statement.	CO5	K1
	A. TCL	B. DDL		
	C. DML	D. DCL		

Qn. No.		Section – B Answer ALL the Questions (3 x 4 = 12)	CO(s)	K – Level
A		Explain in detail about the usage of HAVING Clause.	CO3	K2
7		OR		
	В	Summarize the usage of numeric functions.	CO3	K2
	A	Illustrate the usage of various explicit attributes.	CO4	K3
8		OR		
В		Show the working of While loop	CO4	К3
	A	Illustrate the usage of Procedures.	CO5	К3
9		OR		
	В	Interpret on BEFORE TRIGGER.	CO5	K3

Qn. No.		Section – C Answer ALL the Questions (2 x 6 = 12)	CO(s)	K – Level
10	10 A Show the use of character function in PL/SQL.		CO3	K3
	OR			
	B Classify the various data types of PL/SQL.		CO4	K4
11	A	Explain in detail about Packages.	CO5	K4
	OR			
	B Infer the usage of Varrays in PL/SQL.		CO5	K4

Reg.No:					
OLLEGE (Autonomous)					
	ai Kamaraj University)				
AAC with 'B' G	Grade)				
STER [2021-22	-				
ESSMENT TES'	T - 11 Date: 22.06.2022				
	Time: 10-11 AM				
xpert System	Max Marks: 30				
	6X1=6				
which one of these st					
C. Intermediate state	e D. All of these				
nvironment using					
C. Actuators	D.Both A and C				
stae-space search?					
to understand associa	ations & relationship				
B.Cognitive Science					
D.Pattern Matching					
straint satisfaction pro	oblem can be eliminated				
B.Constraint Propagat D.Omitting the constr					
B. A sequence of step D. Arbitrary represen					
	2X7=14				



G.T.N.ARTS CO (Affiliated to Madur

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EVEN SEME

INTERNAL ASSE

: III BCA (A&B) Class Paper Code : 17UCAE62 Title of the Paper : Artificial Intelligence & Ex

Section A		
Answer ALL the Questions		6X1=6
1. A problem in a search space is defined by	y which one of these state?	
A. Initial state B. Last state	C. Intermediate state	D. All of these
2. An AI agent perceives and acts upon the	environment using	
A. Sensors B.Perceiver	C. Actuators	D.Both A and C
3. The available ways to solve a problem of	f stae-space search?	
A. 1 B.2 C. 3 D.4		
4. Which AI technique enables the compute	er to understand associations	& relationship
between objects and events?		
A. Heuristic Processing	B.Cognitive Science	
C. Relative Symbolism	D.Pattern Matching	
5. To overcome the need to backtrack in co	nstraint satisfaction problem	can be eliminated
by		
A. Forward Searching	B. Constraint Propagation	
C. Backtrack after a forward search	D.Omitting the constraints	
6. A production rule consists of		
A. A set of rule	B. A sequence of steps	
C. Set of rules and sequence of steps	D. Arbitrary representation	to problem
Section B		
Answer ALL the following questions 7. a) Explain AI techniques in detail. (Or)		2X7=14
(())		

- b) Write a short note on production systems?
- 8. a) Explain in detail about Generate and test algorithm.

(Or)

b) Write a note on means-end analysis.

Section C

Answer ANY one of the following

- 9. Write a short note on problem characteristics.
- 10. Explain Hill Climbing algorithm with an example.



Even Semester (2021- 2022)

OBE Regulation – 2020

Continuous Internal Assessment Test – I

Programme: BCA Semester: II

Class: I BCA (A, B, C, D) Date: 19.04.2022

Course Title: Data Structure using C Time: 10.00 to11.30a.m

Course Code: 20UCAC21 Max. Marks: 30

CO1	Classify the input and output devices.
CO2	Outline the computer software and it types.

No. Answer ALL the Questions (6 x 1 = 6) In a linked list, the pointer of the last node contains a	CO(s)	K – Level
1 In a linked list, the pointer of the last node contains a	CO1	
, 1		K1
special value, called the pointer		
a) NULL b) Zero c) Link d) Next pointer		
2 The link list also contains a list pointer variable called	d CO1	K1
start or		
a) Name b) Field		
c) Node d) Link		
3 is a linear structure in which items may be	CO1	K1
added or removed at one end.		
a) Queue b) Recursion		
c) Stack d) Linear List		
4 is a dequeue which allows insertions at only	CO1	K1
one end of list but allows deletion at both ends of the		
list.		
a) Input-restricted queue b) Output-restricted queue c) Queue d) Dequeue	e	
c) Queue d) Dequeue 5 A terminal node in a binary tree T is called	CO1	K1
A comman node in a omary tree 1 is called	(0)	IX1
a) Edge b) Path		
c) Leaf d) Branch		

6	Binary tree is said to be 2 tree or		CO1	K1
	a) Extended Binary tree	b) Expression		
	c) Threaded	d) Game		

0 N		Section – B			
Qn.	No.	Answer ALL the Questions (3 x 4 = 12)	CO(s)	K – Level	
	A	State the Representation of Linked List in Memory	CO1	K1	
7		OR			
	В	Specify how to Insert into a sorted Linked List with Algorithm	CO1	K1	
8	A	Show the Implementation of Queue as an array in C	CO1	K1	
		OR			
	В	Illustrate about Dequeues	CO2	K2	
	A	Describe about Binary Trees	CO2	K2	
9		OR			
9	В	Recall how to Traverse Binary Trees in Memory	CO2	K2	
Qn.	No.	Section – C Answer Any two Questions (2 x 6=12)	CO(s)	K – Level	
10	0	Discuss how to transform Infix Expression to postfix with algorithm and example.	CO2	K2	
1	1	Discriminate the Implementation of Queue in C	CO2	K2	
1:	2	Examine the Traversing Binary Trees with example	CO2	K2	

Course Teacher Hod Dean



Even Semester (2021- 2022)

OBE Regulation – 2020

Continuous Internal Assessment Test – II

Programme: BCA Semester: II

Class: I BCA (A, B, C, D) Date: 20.06.2022

Course Title: Data Structure using C Time: 10.00 to11.30a.m

Course Code: 20UCAC21 Max. Marks: 30

CO3	Classify the input and output devices.	
CO4	Outline the computer software and it types.	
CO5	Make use of Algorithms and pseudo code to write a program.	

Qn.	Section – A	CO(a)	K – Level
No.	Answer ALL the Questions (6 x 1 = 6)	CO(s)	K – Levei
1	In a linked list, the pointer of the last node contains a	CO3	K1
	special value, called the pointer		
	a) NULL b) Zero c) Link d) Next pointer		
2	The link list also contains a list pointer variable called	CO3	K1
	start or		
	a) Name b) Field		
	c) Node d) Link		
3	is a linear structure in which items may be	CO4	K1
	added or removed at one end.		
	a) Queue b) Recursion		
	c) Stack d) Linear List		
4	is a dequeue which allows insertions at only	CO4	K1
	one end of list but allows deletion at both ends of the		
	list.		
	a) Input-restricted queue b) Output-restricted queue		
5	c) Queue d) Dequeue	CO5	K1
3	A terminal node in a binary tree T is called	COS	IX1
	a) Edge b) Path		
	c) Leaf d) Branch		

6	Binary tree is said to be 2 tree or		CO5	K1
	a) Extended Binary tree	b) Expression		
	c) Threaded	d) Game		

Qn. No.		Section – B	GO()			
		Answer ALL the Questions (3 x 4 = 12)	CO(s)	K – Level		
	A	State the Representation of Linked List in Memory	CO3	K2		
7		OR				
	В	Specify how to Insert into a sorted Linked List with Algorithm	CO3	K2		
8	A	Show the Implementation of Queue as an array in C	CO4	К3		
8		OR				
	В	Illustrate about Dequeues	CO4	K3		
	A	Describe about Binary Trees	CO5	K2		
9		OR				
9	В	Recall how to Traverse Binary Trees in Memory	CO5	K2		
Qn.	No.	Section – C Answer Any two Questions (2 x 6=12)	CO(s)	K – Level		
10		Discuss how to transform Infix Expression to postfix with algorithm and example.	CO3	K3		
11		Discriminate the Implementation of Queue in C	CO4	K3		
1	2	Examine the Traversing Binary Trees with example	CO5	К3		

Course Teacher Hod Dean

	Reg.No:
G.T.N.ARTS	COLLEGE (Autonomous)
	urai Kamaraj University)
`	NAAC with 'B' Grade)
	MESTER [2021-22]
Class : III BCA (A&B)	SSESSMENT TEST – I Date: 22.04.2022
Paper Code : 17UCAE62	Time: 10-11 AM
Title of the Paper : Artificial Intelligence &	& Expert System Max Marks: 30
Section A	
Answer ALL the Questions	6X1=6
1. A problem in a search space is defined	•
A. Initial state B. Last state	C. Intermediate state D. All of these
2. An AI agent perceives and acts upon the	ne environment using
A. Sensors B.Perceiver	C. Actuators D.Both A and C
3. The available ways to solve a problem of	of stae-space search?
A. 1 B.2 C. 3 D.4	
4. Which AI technique enables the compu	iter to understand associations & relationship
between objects and events?	
A. Heuristic Processing	B.Cognitive Science
C. Relative Symbolism	D.Pattern Matching
5. To overcome the need to backtrack in c	constraint satisfaction problem can be eliminated
by	
A. Forward Searching	B.Constraint Propagation
C. Backtrack after a forward search	D.Omitting the constraints
6. A production rule consists of	
A. A set of rule	B. A sequence of steps
C. Set of rules and sequence of steps	D. Arbitrary representation to problem
Section B	
Answer ALL the following questions	2X7=14

Answer ALL the Questions 1. A problem in a search space is defined by A. Initial state 2. An AI agent perceives and acts upon the en A. Sensors 3. The available ways to solve a problem of s A. 1

Section B

Answer ALL the following questions

7. a) Explain AI techniques in detail.

(Or)

- b) Write a short note on production systems?
- 8. a) Explain in detail about Generate and test algorithm.

(Or)

b) Write a note on means-end analysis.

Section C

Answer ANY one of the following

- 9. Write a short note on problem characteristics.
- 10. Explain Hill Climbing algorithm with an example.

G.T.N.ARTS COLLEGE (Affiliated to Madurai Kamara (Accredited by NAAC with 'EVEN SEMESTER [202 INTERNAL ASSESSMENT	j University) B' Grade) 1-22]
Class : III BCA (A&B)	Date: 19.04.2022
Paper Code : 17UCAC61	Time: 10-11 AM
Title of the Paper: Python Programming	Max Marks: 30
Section A	
Answer ALL the Questions	6X1=6
1. Which one of these is floor division?	
A. / B. // C. % D. **	
2. Which of the following is a Python tuple?	
A. {1,2,3} B.(1,2,3) C. [1,2,3] D.{}	
3. In order to store values in terms of key and value pair we	use what core datatype?
A. List B.Dictionary C. Tuples D.Array	
4. What is the valuet of the x in Python programming? $x=4^{\circ}$	12
A. 2 B.4 C. 8 D.12	
5. What is the output of "math.floor(3.4)"?	
A. 3 B.4 C. 4.0 D.3.0	
6. Which of the following cannot be a variable?	
Ainit_ B. in C. it D. on	
Section B	
Answer ALL the following questions 7. a) Explain features of Python in detail. (Or) b) Write a short note on decision making statements in Python	2X7=14 thon?

Answer ALL the follow

- b)Write a short note or
- 8. a) Explain in detail about Loops in Python.

b) How to define and calling a recursive function with example programs?

Section C

Answer ANY one of the following

- 9. What are the data types available in python?
- 10. Write any 10 string formatting functions with example programs?



Even Semester (2021- 2022) OBE Regulation – 2020

Continuous Internal Assessment Test – I

Programme: BCA Semester: IV

Class: II Date: 21-04-2022

Course Title: Principles of operating system Time: 10-11.30

Course Code: 20UCAC43 Max. Marks: 30

Qn.	Section – A	CO (a)	W Lovel
No.	Answer ALL the Questions $(6 \times 1 = 6)$	CO(s)	K – Level
1	SPOOL is	CO1	K1
	a)simultaneous Printer operation offline.		
	b)Simple peripheral operation offline.		
	c)Simple printer operation online.		
	d)Simultaneous peripheral operation online.		
2	Multitasking was developed in generation.	CO1	K1
	a)first b)second c)third d)fourth		
3	mut reside in the memory forever.	CO1	K1
4	a)resident b)transient c)CM d)VMS Aegis and XOK are example of OS.	CO1	K1
_	a)monolithic b)layered	COI	KI
5	c)exokernal d)hybrid kernel based Program is aentity while process is a	CO2	K1
	entity.		
	a)passive,active b)active,passive		
	c)active,active d)passive,passive		
6	When a job is selected to be brought in the main	CO5	K1
	memory it is called scheduling.		
	A)process b)job c)CPU d)disk		

Qn.	No.	Section – B Answer ALL the Questions (5 x 3 = 15)	CO(s)	K – Level	
7	A	List the function performed by OS with needed diagrams?	CO1	K1	
/		OR			
	В	Describe the characteristic of distributed OS.	CO1	K1	
	A	Outline all the steps of the general working of an OS?	CO1	K1	
8		OR			
	В	What is the idea behind development of layered architecture OS?	CO1	K1	
	A	State how context switching implemented?	CO2	K1	
9		OR			
	В	Recite different types schedulers in detail?	CO2	K1	
Qn. No.		Section – C Answer Any two Questions (2 x 6=12)	CO(s)	K – Level	
	A	Discuss briefly about third generation of computers?	CO1	K2	
10	OR				
	В	Explain the goals of an OS?	CO1	K2	
	A	What is the need of system call?with the help of example illustrate how it is executed?	CO2	K2	
OR 11					
11	В	Express your views about process states?Draw and show how state transistion are implemented?	CO2	K2	



Even Semester (2021- 2022) OBE Regulation – 2020

Continuous Internal Assessment Test – II

Programme: BCA Semester: IV

Class: II Date: 21-06-2022

Course Title:Principles of operating system

Time: 1.00 to 2.30 p.m

Course Code: 20UCAC43 Max. Marks: 30

Qn. No.	Section – A Answer ALL the Questions (6 x 1 = 6)	CO(s)	K – Level
1	An edge form a process to a resourse in RAG is known as	CO4	K1
	a)Assignment edge. b)Rectangular node. c)Request edge.		
	d)Circular edge.		
2	I the minimum number of memory access needed in paging.	CO4	K1
2	a)threeb)fourc)two d)five		77.1
3	of the following decreases the overhead of processing. a)paging b)compaction c)segmentationd)fragmentation	CO4	K1
4	algorithm is better when the load on the disk is low and the request are uniformly distributed a)SCAN b)FCFS c)LOOK d)SSTT	CO5	K1
5	is also known elevator algorithm. a)SCAN b)FCFS c)LOOK d)SSTT	CO5	K1
6	Block level distributed party is used in A)RAID level 1 b)RAID level 4 c)RAID level 5 d)RAID level 6	CO5	K1

Qn.	No.	Section – B Answer ALL the Questions (5 x 3 = 15)	CO(s)	K – Level	
	A	Show the use of any one methos for preventing deadlock?	CO4	К3	
7		OR		,	
	В	Articulate how to select a return process in about a process while recovering from a deadlock?	CO4	К3	
	A	What are the advantages and disadvantages of contiguous allocation with variable partitioning?	CO4	К3	
8		OR		<u> </u>	
	В	Can you produce hardware requirements in the implementation of segmentation?	CO4	K4	
	A	Why disks scheduling is important for I/O operation?defend with reasons?	CO5	K2	
9		OR			
	В	Express the factors that decide swap space size?	CO5	K2	
Qn. No.		Section – C Answer Any two Questions (2 x 6=12)	CO(s)	K – Level	
	A	Illustrate how deadlock can be detected efficiently?	CO4	K4	
10		OR			
	В	Analyze any three condition of your choice for preventing deadlock?	CO4	K4	
	A	Sketch how FSFS can be used for disk scheduling with example?	CO5	К3	
11		OR		1	
	В	Explain rotational optimization in detail?	CO5	K3	

Course Teacher Hod Dean