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INTERNAL ASSESSMENT TEST – I

Class : I BCA A&B. Date : 17-08-18
Paper Code : 17UCAC11 Time : 9am-10am
Title of the Paper : C PROGRAMMING Max Marks : 30

Title of th	ne Paper : C PROGRAMMING	Max Marks: 30
	Section A [Answer ALL the questions]	[6 x 1 = 6]
	C program requires a function mbolic b) main	
	b program d) system	
	e following which is not a keyword	
a)fo	or b) void nain d) else	
	xpression !(x!=y) can be replaced by the expression	
ä	a)x < y $b)x > y$ $c)x = = y$ $d)x < = y$	<del></del>
	words are of types	
•	(a)34 (b) 32 (c) 52 (d)2 ogram can be viewed as a group of building blocks called	
	(a) Function (b) include (c) statement (d) defi	inition
	ch one of the following belongs to logical operator? (a):: (b) \$\$ (c) && (d) —	
`	(α) (σ) φφ (σ) ααα (α)	
	Section B	$[2 \times 7 = 14]$
7\	[Answer ALL the questions]	
7. a) b)	Explain the basic structure of c program  Discuss about any four operators in detail	
8. a)	Write in detail about printf() and scanf() functions [ <b>OR</b> ]	
b)	Write a c program for finding a biggest among three numb	
	Section C	$[1 \times 10 = 10]$
	[Answer ANY ONE question]	[1.10 10]
	ain about C Tokens	
10. Write	e in detail about any two branching statement with example	

Reg.No:



# G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2018-19]

INTERNAL ASSESSMENT TEST – I

Class : I BCA A&B. Date : 17-08-18
Paper Code : 17UCAC11 Time : 9am-10am
Title of the Paper : C PROGRAMMING Max Marks : 30

			Section A			$[6 \times 1 = 6]$
			[Answer <b>ALL</b> the que		]	
1			function			
		nbolic		b) ma		
		program		d) sys	tem	
2		e following which is n	ot a keyword			
	a)fc			b)	void	
	c)m			d)	else	
3			be replaced by the expre			
			c)x = = y   d)x <	= y		
4	-	vords are of type				
_	,	a)34 (b) 32	` ' ' '			
5			s a group of building bl			<del></del>
		a) Function (b) inclu	` ,		(d) definit	ion
6			g belongs to logical ope	rator?		
	(	a):: (b) \$\$	(c) && (d) —			
			Section B			$[2 \times 7 = 14]$
		[Answer	ALL the questions]			[= ,]
7.	a)	Explain the basic str	-		[OR]	
	b)	-	our operators in detail			
8.	a)		t printf() and scanf() fun	ctions	[OR]	
	b)		or finding a biggest amo			
	- /		6 4 66 4 4 6	6		
			Section C			$[1 \times 10 = 10]$
		[Answer	<b>ANY ONE</b> question]			
9.	Expla	ain about C Tokens	•			
10.			wo branching statement	with e	xample	

M GOD WE TRUST	G.T.N.ARTS ( (Affiliated to Madua (Accredited by N	ai Kamaraj V AAC with 'B' STER [2018-1	University) 'Grade) 19]			
Programme	: II BCA (A&B)		Date: 17 .08.18			
Course code	: 17UCAC32		Time: 10.30-11.30am			
Course name	: Computer Graphics and	Multimedia	Max Marks: 30			
Section A Answer ALL the Questions 6X1=6 1. DDA stands for						
	Diagram Analyzer	h) Digital Differe	ential Analyzer			
	nt Diagram Analyzer	<ul><li>b) Digital Differential Analyzer</li><li>d) Digital Different Analyzer</li></ul>				
2. In circle if	(x, y) is outside the circle bou	ndary means the v	alues of fc(x, y) is			

c) == 0

c) Translation d) Move

c) display

is a transformation that produce a mirror image of an object.

c) Reflection

c) P=R(Q).P'

#### Section B

transformation alters the size of an object.

6. Rotation transformation equation about the coordinate origin is written as

#### **Answer ALL the following questions**

b) P'=RQ)+P

b) < 0

b) Reports

3. Presentation graphics is used to produce illustrations for

b) Rotation

b) Scaling

2X7=14

d) > 0

d) production

d) P'=R(Q).P

d) Scaling

7. a) Explain in detail about DDA line drawing Algorithm.

a) = 0

a) Shear

a) Design

a)Rotation

a)P=R(Q)+P

- b) Explain in detail about Bresenham's Line drawing Algorithm.
- 8. a) What are the Basic transformation available in Computer Graphics?
  - b) Write the steps and explain about other Transformations.

#### Section C

### Answer ANY one of the following

1X10=10

- 9. Explain in detail about Mid-point Circle Drawing Algorithm?
- 10. Write the steps and explain in detail about Composite Transformations.

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#### G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) **ODD SEMESTER [2018-19]** INTERNAL ASSESSMENT TEST - I

Programme : II BCA (A&B) Date: 17.08.18 Course Code : 17UCAC32 Time: 10.30-11.30 am Course name : Computer Graphics and Multimedia Max Marks: 30

#### Section A

#### **Answer ALL the Ouestions** 6X1=61. DDA stands for a) Digital Diagram Analyzer **b)** Digital Differential Analyzer c) Different Diagram Analyzer d) Digital Different Analyzer 2. In circle if (x, y) is outside the circle boundary means the values of fc(x, y) is b) < 0c) == 0d) > 03. Presentation graphics is used to produce illustrations for\_ a) Design b) Reports c) display d) production is a transformation that produce a mirror image of an object. a) Shear b) Rotation c) Reflection d) Scaling transformation alters the size of an object.

- a)Rotation b) Scaling c) Translation d) Move
- 6. Rotation transformation equation about the coordinate origin is written as a)P=R(O)+Pb) P'=RO)+P c) P=R(O).P'd) P'=R(O).P

#### Section B

#### Answer ALL the following questions

2X7=14

- 7. a) Explain in detail about DDA line drawing Algorithm.
  - b) Explain in detail about Bresenham's Line drawing Algorithm.
- 8. a) What are the Basic transformation available in Computer Graphics?
  - b) Write the steps and explain about other Transformations.

#### Section C

#### Answer ANY one of the following

1X10=10

- 9. Explain in detail about Mid-point Circle Drawing Algorithm?
- 10. Write the steps and explain in detail about Composite Transformations.

Reg. No:	1	7	В	C		



INTERNAL ASSESSMENT TEST - I

 Class
 : II BCA
 Date : 16-08-18

 Paper Code
 : 17UCAC31
 Time : 12-1 pm

Title of the Paper : DATA STRUCTURE AND COMPTER ALGORITHMS Max Marks : 30

Section A	[6 x 1 = 6]
[Answer ALL the que	estions]
1 is a data type in which the members of t	the data type are unknown to users
of the type.	
a)Real b)ADT c	c)Boolean d)Fraction
2 is a square matrix with all its non zero e	elements below the main diagonal.
a)upper triangle matrices	b) lower triangle matrices
c) lower and upper triangle matrices	d) tri diagonal matrices
3 field indicating end of the list.	
a)data b)address c)null	d)next
4. Which one is nonlinear data structure	
a)stack b)queue c)tree	d)all of the above
5 process all nodes of a tree by process	ing the root then recursively
processing all left and right sub trees.	
a)in order b)preorder c)post or	der d)level order
6 refers to processing every node of t	he tree once and only once.
,	c)inserting d)viewing
7. Which one of the following belongs to logical of	
(a):: (b) \$\$ (c) && (d) —	-
Section B	$[2 \times 7 = 14]$
[Answer <b>ALL</b> the questions]	
7. a) Binary search is a divide and conquer meth	od. Justify. [ <b>OR</b> ]
b) Write an algorithm for finding maximum as	nd minimum
8. a) Explain linked list implementation of A	DT [OR]
b) Explain various matrix representation	
Section C	$[1 \times 10 = 10]$
[Answer ANY ONE questi	ion]
9. How does a quick sort perform? Explain with exar	nples.
10. Explain one and two dimensional array with examp	ples

#### Reg.No:



# G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2018-19]

INTERNAL ASSESSMENT TEST - I

 Class
 : II BCA
 Date : 16-08-18

 Paper Code
 : 17UCAC31
 Time : 12-1 pm

Title of the Paper : DATA STRUCTURE AND COMPTER ALGORITHMS Max Marks: 30

				Section	n A			$[6 \times 1 = 6]$	
				[Answer	ALL the q	uestions]			
1		is a dat	a type in w					e unknown to	users
of th	e typ	e.							
	a	)Real		b)AD	T	c)Boole	ean	d)Fi	raction
2		is a squ	ıare matrix					the main dia	gonal.
			riangle m					e matrices	
	C	e) lower	and upper	triangle ma	trices	d) tri di	agonal n	natrices	
3				g end of th					
	a	)data	b)a	ddress	c)null		d)next		
4.W	hich	one is n	onlinear da	ata structur	e				
	a)s	tack	b)c	queue	c)tree		d)all of	the above	
5		proc	ess all nod	es of a tree	by proces	ssing the	root the	n recursively	7
proc	essir	ig all lef	t and right	sub trees.					
•	a)ir	order	b)preore	der	c)post	order		d)level orde	r
6		ref	ers to proc	essing ever	y node of	the tree	once and	d only once.	
				earching					<u> </u>
7. W	hich	one of	he followi	ing belongs	to logica	l operato	r?		-
			(b) \$\$		(d) -				
				Section	n B			[2 x	7 = 14
			[Answ	er <b>ALL</b> the	question	s]			
7.	a)	Binary	earch is a c	divide and co	onquer me	thod. Just	tify.	[ <b>O</b> ]	<b>R</b> ]
	b)			for finding				_	
8.	a)			st implemer					
	b)			natrix repre					
		•		Section Ĉ				[1 x 10	0 = 10
			[Ans	wer ANY (	ONE ques	stion]			
9. 1	How	does a qu	_	form? Expla	•	_			
				nsional array					

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		INTERNAL AS	SESSMENT TEST	7 – I
	nme : II B			Date: 20.08.18
	code : 17U			Time: 10.30-11.30am
ourse	name : Soft	ware Engineering		Max Marks : 30
		T 1 0 4	Section A	(374 (
1.		L the Questions he capabilities of the	product is one of the acti	<b>6X1=6</b> Evity in Software
	_	b)reliability	=	d) design
2.	A program is	s called	when it uses only the se	equence, selection and
		es of constructs	•	•
	• •		c) Object-oriented	d) assembler
3.	In which me	tric, the project size i	is estimated by counting	the number of source
	instructions	in the developed prog	gram?	
	a) Function p	point b) LO	C c) SRS	d)UFP
4.	r	nethod is bottom-up	estimation tool	
	a) Expert J	udgment b) Group o	consensus c)Work breakd	lown structures d)LOC
5.	The	team structure prov	vide opportunity for each	team member to
	contribute to	decisions		
	a)Democrati	c b)Chief prograi	mmer c)Hierarchical	d)All the above
6.	Boehm sugg	ests that maintenance	e effort can be estimated	by use of
			tion c)Activity ra	•
	_	Sectio	on B	
	Answer AL	L the following ques	stions	2X7=14
7.	a) Explain the	he Project size categ	ories in Software Engine	ering
		(OR)		
0			m Structure in Software	Engineering
8.	a) Explain th	ne Staffing Level Esti (OR)	imation	
	b) Explain th	ne Software Cost Fac		
			Section C	
		one of the following		1x10 = 10
9.	-	-	ivity Factors in Software	Engineering (OK)
10.	Explain Son	ware Cost Estimation	n Techniques in detail.	

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# G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2018-19]

		IN	TERNAL AS	SESS	SMENT TES	T - I	
rogram	nme	: II BCA	(A&B)			Date:	20.08.18
Course	code					Time	: 10.30-11.30am
Course i	name	: Softwar	e Engineering			Max I	Marks : <b>30</b>
				Sec	tion A		
	Ansv	wer ALL t	he Questions				6X1=6
1.	Enha	ncing the c	apabilities of the	produ	ct is one of the ac	ctivity in	Software
	a) qua	ality	b)reliability	c) n	naintenance	d	) design
2.	A pro	gram is ca	lled	_ wher	it uses only the	sequenc	e, selection and
	iterati	ion types o	f constructs				
	a)Uns	structured	b)Structured	c) (	Object-oriented	d	) assembler
3.	In wh	ich metric	, the project size i	s estin	nated by counting	g the nu	mber of source
	instru	ctions in tl	ne developed prog	gram?			
	a) Fu	nction poir	nt b) LO	C	c) SRS	d	)UFP
4.		metl	hod is bottom-up	estima	tion tool		
			gment b) Group c			kdown s	tructures d)LOC
5.		-	eam structure prov				
		ibute to de	-	1	1 3		
	a)Der	nocratic	b)Chief prograr	nmer	c)Hierarchical	d	)All the above
6.			s that maintenance				•
0.			b)Effort estima			•	
	ajrīda	аршотту	Section		c)Activity i	ano u	)1 51
	Answ	er ALL tl	he following ques				2X7=14
7.			Project size categor		n Software Engir	neering	2217-1-1
/.	u) L	apiani die	(OR)	ories i	ii boitware Engli	iccing	
	b) Ex	kplain abou	it the Project Tea	ım Strı	ucture in Softwar	e Engin	eering
8.			taffing Level Esti			υ	C
		=	(OR)				
	b) Ex	plain the S	oftware Cost Fact				
				Sec	tion C		

9. Explain the Quality and Productivity Factors in Software Engineering (OR)

10. Explain Software Cost Estimation Techniques in detail.

1x10 = 10

III. Answer any one of the following:

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G.T.N.ARTS COLLEGI ffiliated to Madurai Kama (Accredited by NAAC with ODD SEMESTER [20	raj 1 'E )18	Uı 3' (	niv Gra ]	er ado	sit; e)	_	
INTERNAL ASSESSMEN	T	$\Gamma E$	ST	_	I		

Programme : II BCA (A&B) Date: 18.08.18 Course code : 17UCAC33 Time: 12-1 pm Max Marks: 30

#### Course name : Operating System Section A **Answer ALL the Ouestions** 6X1=61. To access the services of operating system, the interface is provided by the B. API C. Assembly Instruction D. Library A. System calls 2. The concept of running several programs at the same time is called A. Multiprocessing B. Multiprogramming C. Multitasking D. Multithreading 3. Process is A. Program in high level language B. Contents of main memory C. a program in execution D. a job in secondary memory 4. In \_\_\_\_\_ only one process at a time is allowed in its critical section, among all processes that have critical sections for the same resource. A. Mutual Exclusion B. Synchronization C. Deadlock D. Starvation 5 What are the basic process states in operating system? A. Create, Blocked, Destroy B. Ready, Running, and Resume C. Ready, Suspend, Resume D. Ready, Running, Blocked 6. In which type of operating system architecture kernel is small and isolated? A. Monolithic B. Layer C. Microkernel D. Network Section B **Answer ALL the following questions** 2X7=147. a) Give a brief account on OS components and goals? (Or) b) Discuss on process states and state transitions with diagram. 8. a) What is interrupt and describe interrupt processing? b) Explain the Peterson's algorithm for mutual exclusion? **Section C** Answer ANY one of the following 1X10=10

- 9. Give a detailed note on types of OS architecture?
- 10. Explain the Lamport's Bakery algorithm for N -thread mutual exclusion?

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#### G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) **ODD SEMESTER [2018-19]** INTERNAL ASSESSMENT TEST - I

Programme : II BCA (A&B) Date: 18.08.18 Course Code : 17UCAC33 Time: 12-1 pm Course name : Operating System Max Marks: 30

#### Section A 6X1=6 **Answer ALL the Ouestions** 1. To access the services of operating system, the interface is provided by the B. API C. Assembly Instruction D. Library A. System calls 2. The concept of running several programs at the same time is called \_ A. Multiprocessing B. Multiprogramming C. Multitasking D. Multithreading 3. Process is A. Pro gram in high level language B. Contents of main memory C. a program in execution D. a job in secondary memory 4. In \_\_\_\_\_ only one process at a time is allowed in its critical section, among all processes that have critical sections for the same resource. A. Mutual Exclusion B. Synchronization C. Deadlock D. Starvation

- 5 What are the basic process states in operating system?
  - A. Create, Blocked, Destroy B. Ready, Running, and Resume
  - C. Ready, Suspend, Resume D. Ready, Running, Blocked
- 6. In which type of operating system architecture kernel is small and isolated?
  - A. Monolithic
- B. Layer

#### C. Microkernel D. Network Section B

## 2X7=14

## **Answer ALL the following questions**

7. a) Give a brief account on OS components and goals?

(Or)

- b) Discuss on process states and state transitions with diagram.
- 8. a) What is interrupt and describe interrupt processing?
  - b) Explain the Peterson's algorithm for mutual exclusion?

#### Section C

#### Answer ANY one of the following

1X10=10

- 9. Give a detailed note on types of OS architecture?
- 10. Explain the Lamport's Bakery algorithm for N -thread mutual exclusion?

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

(Affiliated to Madurai Kamaraj University)

(Accredited by NAAC with 'B' Grade)

**ODD SEMESTER [2018-19]** 

INTERNAL ASSESSMENT TEST – I

Programme	: III BCA (A&B)	Date: 17 .08.18
Course code	: SCAGC52	Time: 10.30-11.30 am
Course name	· Data Communication and Computer Networ	ks Max Marks: 30

#### Section A **Answer ALL the Questions** 6X1=61.----Provides a basic electronic mail facility A. MTP B. FTP C. Telnet D. SMTP 2. Frequency between 1 and 300 GHz are called -----B. Waves C. Frequency D. Microwaves A. Bandwidth 3. Two (or) more ground based microwave transmitter/receivers known as ------A. Signals B. Station C. earth station D. ground station 4. CRC stands for-----A. Cyclic Radio Circle B. Cyclic Redundancy Check C. Cyclic Redundancy Circle D. Cyclic Ratio Check 5.A ----- acts as a pathway, allowing data to flow one device on a segment to another C. hub A. Passive hub B. Active hub D. Switching hub 6. ----- divides the channels into distinct time slots. A. TMDA B. TDMA C. TDA D. TADM **Section B** Answer ALL the following questions 2X7=14 7. a) Give a brief account of STAR Topology. b) Explain in details of What are the categories of Network. 8. a) Explain in detail about LAN equipments. b) Explain in detail about WAN equipments. Section C Answer ANY one of the following 1X10=10 9. Give a detailed note on OSI model? 10. What are the Types of Errors? Explain in detail.

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# G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2018-19] INTERNAL ASSESSMENT TEST - I

Programme : III BCA (A&B) Date: 17.08.18

Course Code :SCAGC52 Time: 10.30-11.30am

Course name : Data Communication and Computer Networks Max Marks: 30

Section A	
<b>Answer ALL the Questions</b>	6X1=6
1Provides a basic electronic mail facility	
A. MTP B. FTP C. Telnet D. SMTP	
2. Frequency between 1 and 300 GHz are called	
A. Bandwidth B. Waves C. Frequency D. Micro	owaves
3. Two (or) more ground based microwave transmitter/receive	ers known as
A. Signals B. Station C. earth station	D. ground station
4. CRC stands for	-
A. Cyclic Radio Circle B. Cyclic Redundancy C	Check
C. Cyclic Redundancy Circle D. Cyclic Ratio Check	
5.A acts as a pathway, allowing data to flow on	e device on a segment to
another	Ç
A. Passive hub B. Active hub C. hub	D. Switching hub
6 divides the channels into distinct time slots	•
A. TMDA B. TDMA C. TDA	
Section B	
Angreen AII the following questions	2V7_14
Answer ALL the following questions 7. a) Give a brief account of STAR Topology.	2X7=14
(Or)	
b) Explain in details of What are the categories of Network	
8. a) Explain in detail about LAN equipments.	
(Or)	
b) Explain in detail about WAN equipments.	
Section C	
Answer ANY one of the following	1X10=10
9. Give a detailed note on OSI model?	
10. What are the Types of Errors? Explain in detail.	



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

(Affiliated to Madurai Kamaraj University)

(Accredited by NAAC with 'B' Grade)

**ODD SEMESTER [2018-19]** INTERNAL ASSESSMENT TEST - I

Programme	: III BCA (A&B)	Date: 16.08.18
Course code	· SCAGC51	Time: 12-1 nm

Course name : Relational DataBase Management System Max Marks: 30

#### Section A **Answer ALL the Ouestions** 6X1=61.----- is a collection of high level data description constructs that hide low level storage details. A. Data B. Data model C. DBMS D. Relation 2. A description of data in terms of a data model is called a \_ A. Schema B. Entity C. Relationships D. Attributes 3. UML stands for A. Unity ModularityLevel B. Unified modeling Language C. Unified Modularity Level D. Unity modularity Language 4. is the number of tuples in the relation A. Degree B. Cardinality C. Domain D. Arity 5. In Relation Algebra, the operator used to select the number of columns is ------B. ← C. a Α. π $D. \times$ 6. -----is a variable that ranges over the values in the domain of some attribute.. A. Domain variable B. Tuple variable C. Domain D. Entity **Section B Answer ALL the following questions** 2X7=14 7. a) Explain the level of abstraction in a DBMS. (Or) b) Explain the structure of DBMS. 8. a) Write about the integrity constraints over relations. (Or) b) Explain Tuple Relational calculus. **Section C Answer ANY one of the following** 1X10=109. Give a detailed note on additional features of ER model? 10. Explain the set operations on Relational Algebra.

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#### G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) **ODD SEMESTER [2018-19]** INTERNAL ASSESSMENT TEST - I

Programme : III BCA (A&B) Date: 16.08.18 Time: 12-1 pm Course code : SCAGC51 Course name : Relational DataBase Management System Max Marks: 30

#### Section Section A

Section Section A	
Answer ALL the Questions	6X1=6
1is a collection of high level data description constructs the	at hide low level
storage details.	
A. Data B. Data model C. DBMS D. Relation	
2. A description of data in terms of a data model is called a	
A. Schema B. Entity C. Relationships D. Attributes	
3. UML stands for	
A. Unity ModularityLevel B. Unified modeling Language	
C. Unified Modularity Level D. Unity modularity Language	
4 is the number of tuples in the relation	
A. Degree B. Cardinality C. Domain D. Arity	
5. In Relation Algebra, the operator used to select the number of colu	ımns is
A. $\pi$ B. $\leftarrow$ C. $\alpha$ D. $\times$	
6is a variable that ranges over the values in the domain	of some attribut
A. Domain variable B. Tuple variable C. Domain D. Entity	or some attribut
Section B	
	ATT 44
Answer ALL the following questions	2X7=14
7. a) Explain the level of abstraction in a DBMS.  (Or)	
b) Explain the structure of DBMS.	
8. a) Write about the integrity constraints over relations.	
(Or)	
b) Explain Tuple Relational calculus.	
Section C	47740 40
Answer ANY one of the following	1X10=10
9. Give a detailed note on additional features of ER model?	

10. Explain the set operations on Relational Algebra.

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## G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University)

(Accredited by NAAC with 'B' Grade)

### **ODD SEMESTER [2018-19]**

INTERNAL ASSESSMENT TEST - I

Programme	: III BCA (A&B)	Date: <b>18.08.18</b>
Course Code	: SCAGC53	Time: <b>12-1 pm</b>
Course name	: Operating System	Max Marks: 30

#### Section A 6X1=6**Answer ALL the Ouestions** which determines when and how long a process executes on a processor. A. IO manager B. Memory manager C. Process Scheduler D. Memory manager 2. The concept of running several programs at the same time is called \_ A. Multiprocessing B. Multiprogramming C. Multitasking D. Multithreading 3. Process is A. Program in high level language B. Contents of main memory C. a program in execution D. a job in secondary memory 4. In only one process at a time is allowed in its critical section, among all processes that have critical sections for the same resource. A. Mutual Exclusion B. Synchronization D. Starvation C. Deadlock 5 What are the basic process states in operating system? A. Create, Blocked, Destroy B. Ready, Running, and Resume C. Ready, Suspend, Resume D. Ready, Running, Blocked 6. In which type of operating system architecture kernel is small and isolated? A. Monolithic B. Layer C. Microkernel D. Network Section B Answer ALL the following questions 2X7=14 7. a) Give a brief account on OS components and goals? (Or) b) Discuss on process states and state transitions with diagram. 8. a) Explain Inter process communication in detail. b) Explain the Peterson's algorithm for mutual exclusion? **Section C** Answer ANY one of the following 1X10=10 9. Give a detailed note on types of OS architecture?

10. Explain the Dekker's algorithm for N -thread mutual exclusion?

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8							



# G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2018-19]

INTERNAL ASSESSMENT TEST - I

Programme : III BCA (A&B) Date: 18.08.18
Course Code : SCAGC53 Time: 12-1 pm
Course name : Operating System Max Marks: 30

Section A	
<b>Answer ALL the Questions</b>	6X1=6
1which determines when and how	ong a process executes on a processor.
A. IO manager B. Memory mana	ager C. Process Scheduler
D. Memory manager	
2. The concept of running several programs	at the same time is called
A. Multiprocessing B. Multiprogramm	ming C. Multitasking D. Multithreading
3. Process is	
A. Pro gram in high level language	B. Contents of main memory
C. a program in execution	D. a job in secondary memory
4. In only one process at a	a time is allowed in its critical section, among all
processes that have critical sections for the s	ame resource.
A. Mutual Exclusion B. Synchroniza	tion C. Deadlock D. Starvation
5 What are the basic process states in operat	ing system?
A. Create, Blocked, Destroy	B. Ready, Running, and Resume
C. Ready, Suspend, Resume	D. Ready, Running, Blocked
6. In which type of operating system architec	cture kernel is small and isolated?
A. Monolithic B. Layer	C. Microkernel D. Network
Section	В
Answer ALL the following questi	ons 2X7=14
7. a) Give a brief account on OS components	
(Or)	
b) Discuss on process states and state tran	•
8. a) Explain Inter process communication in	i detail.
(Or) b) Explain the Peterson's algorithm for m	utual evelucion?
Section	
Answer ANY one of the following	

9. Give a detailed note on types of OS architecture?

10. Explain the Dekker's algorithm for N -thread mutual exclusion?

Reg. No:	1	7	В	C		
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INTERNAL ASSESSMENT TEST - II

Class : I BCA A&B. Date : 25-10-17
Paper Code : 17UCAC11 Time : 9-10am
Title of the Paper : C PROGRAMMING Max Marks : 30

	Section A	4	$[6 \times 1 = 6]$	
1	[Answer <b>ALL</b> the que	estions		
1	An array isdata type a) derived	b)	fundamental	
	c) used defined	d)	primary	
2	format specification to read in a string of c	,		
_	a) %s	b)	%c	
	c) %h	d)	%f	
3	Function header is consist ofparts	,		
	a) 4	b)	2	
	c) 3	d)	5	
4	A function declaration is also known as function			
	a)name	b)	type	
	c)prototype	d)	definition	
5	The are integer oriented functions			
	a)putw()	b)	ftell()	
	c)fprintf()	d)	getc()	
6	The function fscanf from the file			
	a) ctype	b)	stdin	
	c) math	d)	ctype	_
	Section B		$[2 \times 7 = 14]$	]
	[Answer ALL the questions]			
7.	a) Explain about one dimension array		[ OR ]	
0	b) Explain about any four string handling func	tion	. OD 1	
8.	a) Discuss about function declaration		[ OR ]	
	b) Discuss about defining and opening file			
	Section C		$[1 \times 10 = 10]$	
	[Answer ANY ONE question]		$[1 \times 10 - 10]$	
	[Allswei Arvi Orve question]			
9.	Explain about definition of functions			
	Explain input output operation on files			
	r ··· r ·· r			

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# G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2017-18]

INTERNAL ASSESSMENT TEST - II

Class: I BCA A&B.Date : 25-10-17Paper Code: 17UCAC11Time : 9-10amTitle of the Paper: C PROGRAMMINGMax Marks : 30

	Section A	,•	1	$[6 \times 1 = 6]$
1	[Answer ALL the	questions	J	
1	An array isdata type	1. \	C1	
	a) derived	p)	fundamental	
2	c) used defined	d)	primary	
2	format specification to read in a string of a) %s		%c	
	,	b)	%¢ %f	
3	c) %h Function header is consist ofparts	d)	701	
3	<u>*</u>	b)	2	
	a) 4 c) 3	b) d)	2 5	
4	A function declaration is also known as functi	,	3	
4	a)name	b)	type	
	c)prototype	d)	definition	
5	The are integer oriented functions	u)	deminion	
5	a)putw()	b)	ftell()	
	c)fprintf()	d)	getc()	
6	The function fscanf from the file	u)	gete()	
U	a) ctype	b)	stdin	
	c) math	d)	ctype	
	c) man	u)	ctype	
	Section B			$[2 \times 7 = 14]$
	[Answer ALL the questions]			[= , ]
7.	a) Explain about one dimension array		[OR]	
	b) Explain about any four string handling fu	inction	[ 021]	
8.	a) Discuss about function declaration		[OR]	
	b) Discuss about defining and opening file			
	<i>8</i>			
	Section C			$[1 \times 10 = 10]$
	[Answer ANY ONE question	1]		
9.	Explain about definition of functions			
	Explain input output operation on files			

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INTERNAL ASSESSMENT TEST - II

Class : II B.Sc MATHS Date : 23-10-17
Paper Code : 17UMAA31 Time :12-1 pm
Title of the Paper : C PROGRAMMING Max Marks : 30

Title	e of the Paper : C PROGRAMMING	Max Marks: 30				
	Section A	,•	[6 x 1 = 6]			
	[Answer ALL the	questions				
1	function joins two strings together	1.				
	a) strcpy()	p)	strcmp()			
2	c) strlen()	d)	strcat()			
2	format specification to read in a string (a) %s	b)	%c			
	a) 708 c) %h	d)	%C %f			
3	function header is consist ofparts	u)	701			
3	a) 4	<b>b</b> )	2			
	a) 4 c) 3	b) d)	5			
4	A function declaration is also known as funct	,	3			
4	a) name	b)	typo			
	c) prototype	d)	type definition			
5	The structure keyword is	u)	definition			
5	a) structure	b)	struct			
	c) char	d)	int			
6	The structure name is called as a	u)	mt			
O	a) main()	b)	tag name			
	c) pointer name	d)	struct name			
	Section B	u)	[2 x $7 = 14$ ]			
	[Answer ALL the questions]	l	[2 X / - 1 1]			
7.	a) Explain about <b>one dimension array</b>		[ OR ]			
٠.	b) Explain about one dimension array b) Explain about any four string handling	function	[OK]			
8.	a) Discuss about <b>recursive function</b> with a		e[ <b>OR</b> ]			
0.	b) Write a program for <b>matrix multiplicat</b>		o [ OK ]			
	o) write a program for matrix matriplicate					
	Section C		$[1 \times 10 = 10]$			
	[Answer ANY ONE question	1]				
	-					
9.	Explain about <b>structures</b> with an example					
10.	Explain about function categories with an example of the control o	mple				

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# G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) ODD SEMESTER [2017-18]

INTERNAL ASSESSMENT TEST - II

Class : II B.Sc MATHS Date : 23-10-17
Paper Code : 17UMAA31 Time : 12-1pm
Title of the Paper : C PROGRAMMING Max Marks : 30

Titl	e of the Paper : C PROGRAMMING	Max Marks : 30	'
	Section A	[6 x 1 = 6]	
	[Answer ALL		
1	function joins two strings together	er	
	a) strcpy()	b) strcmp()	
	c) strlen()	d) streat()	
2	format specification to read in a str	•	
	a) %s	b) %c	
	c) %h	d) %f	
3	function header is consist ofparts		
	a) 4	b) 2	
	c) 3	d) 5	
4	A function declaration is also known as for		
	a) name	b) type	
	c) prototype	d) definition	
5	The structure keyword is		
	a) structure	b) struct	
	c) char	d) int	
6	The structure name is called as a		
	a) main()	b) tag name	
	c) pointer name	d) struct name	
	Section B	$[2 \times 7 = 1]$	ί4]
	[Answer <b>ALL</b> the questi		
7.	a) Explain about one dimension array	[ OR ]	
	b) Explain about any four string hand	ling function	
8.	a) Discuss about <b>recursive function</b> w	ith an example [ OR ]	
	b) Write a program for <b>matrix multipl</b>	cation	
	Section C	$[1 \times 10 = 10]$	]
	[Answer ANY ONE que		
9.	Explain about <b>structures</b> with an example		
10.	Explain about <b>function categories</b> with an	example	

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INTERNAL ASSESSMENT TEST - I

Class	: II B.com (CA)	Date: 23-08-17
Paper Code	: CCADC31	Time : 9- 10 am
Title of the Paper	: DATABASE APPLICATIONS	Max Marks: 30

	Section A	$[6 \times 1 = 6]$
	[Answer <b>ALL</b> the questions]	
What is refined data?		
a) information	b) knowledge	
c) statistics	d) all of the abov	re

2 Which one of the following is top down process?

a) Generalizationb) specializationc) Categorizationd) all of the above

Which one of the following has the ability to handle m: m relationship?

a) ER model

b) network model

c) both d) None of the above

4 SQL stands for

a) structure query languageb) sequence queue languagec) sequence query languaged) storage query language

schema defines how and where data are organized in physical storage

area.

5

a) Internal Schema b)External Schema

c) external Schema d) Both (a) and (b)

Which one of the following is high level conceptual data model?

a) ER model b) relational model

c) Network model

**Section B**  $[2 \times 7 = 14]$ 

all of the above

[Answer **ALL** the questions]

a) Illustrate the characteristics of data in database.

[ OR ]

b) Write a short note on importance of information quality in data base management system.

8. a) Explain the basic structure of SQL queries with suitable examples. [OR]

b) Explain the various built in data types in SQL.

**Section C** 

 $[1 \times 10 = 10]$ 

[Answer **ANY ONE** question]

- 9. Explain briefly about the network and hierarchical data model with its advantages and disadvantages.
- 10. Explain in detail about the components and symbols in ER model with suitable examples.

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N.ARTS COLLEGE (Autonomous)

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(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]

INTERNAL ASSESSMENT TEST - I

Class : II B.com (CA) Date : 23-08-17
Paper Code : CCADC31 Time : 9- 10 am
Title of the Paper : DATABASE APPLICATIONS Max Marks : 30

Section A

 $[6 \times 1 = 6]$ 

[Answer **ALL** the questions]

1 What is refined data?

a) informationb) knowledgec) statisticsd) all of the above

Which one of the following is top down process?

a) Generalization b) specialization

c) Categorization d) all of the above

Which one of the following has the ability to handle m: m relationship?

a) ER model b) network model

c) both

d) None of the above

4 SQL stands for

a) structure query language

b) sequence queue language

c) sequence query language

d) storage query language

5 \_\_\_\_schema defines how and where data are organized in physical storage area.

a) Internal Schema
b) c) external Schema
d

b)External Schema d) Both (a) and (b)

Which one of the following is high level conceptual data model?

a) ER model

7.

b) relational model

c) Network model

d) all of the above

Section B

 $[2 \times 7 = 14]$ 

[Answer **ALL** the questions]

a) Illustrate the characteristics of data in database. [OR]

b) Write a short note on importance of information quality in data base management system.

8. a) Explain the basic structure of SQL queries with suitable examples. [OR]

b) Explain the various built in data types in SQL.

**Section C** 

 $[1 \times 10 = 10]$ 

[Answer **ANY ONE** question]

- 9. Explain briefly about the network and hierarchical data model with its advantages and disadvantages.
- 10. Explain in detail about the components and symbols in ER model with suitable examples.

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G.T.N.ARTS COLLEGE (Autonomous)  (Affiliated to Madurai Kamaraj University)  (Accredited by NAAC with 'B' Grade)  ODD SEMESTER [2017-18]  INTERNAL ASSESSMENT TEST – I  : II B.Com. Date: 23-08-17							
Paper Code : CCRDS31	Time : 9- 10 am  JTER Max Marks : 30						
Title of the Paper : FUNDAMENTALS OF COMPU	Max Marks : 30						
Section A	$[6 \times 1 = 6]$						
[Answer ALL the ques	tions						
is not a characteristic of computer	10 0 1						
a) High cost	b) Speed						
c) Accuracy	d) Flexibility						
<ul><li>were used in first generation of Compute</li><li>a) Transistors</li></ul>	b) Vacuum tube						
c) VLSI	d) Integrated circuit						
3 Group of 8 bits is called	d) Integrated circuit						
a) Octet	b) Quad						
c) Nibble	d) Byte						
4 The equivalent decimal number of a maximum bir	, <b>,</b>						
a) 2	b) 5						
c) 4	d) 15						
5 Who is the father of the computer?	u) 13						
a) Charles Babbage	b) John Napier						
c) Blaise Pascal	d) Lady Ada Lovelace						
6 Binary Equivalent for(A5) <sub>16</sub> =(?) <sub>2</sub>	a, =,						
a)1010 0101	b)11100110						
c)01011010	d)10101011						
Section B	$[2 \times 7 = 14]$						
[Answer <b>ALL</b> the questions]							
7. a) What are the capabilities of computer? Explain the							
b) Discuss the different generation of computers in d							
8. a) Explain the method for converting Binary to Decin	-						
b) What are the advantages of using Decimal number							
Section C	$[1 \times 10 = 10]$						
[Answer ANY ONE question]							
9. Discuss the different types of computers on the basis of	of processing data.						

b)  $(87.8125)_{10} = (?)_2$ 

10. Perform the following:

a) $(11000.0011)_2 = (?)_{10}$ 

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#### G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) **ODD SEMESTER [2017-18]**

INTERNAL ASSESSMENT TEST - I

Date: 23-08-17 Class : II B.Com. : CCRDS31 Time: 9-10 am Paper Code Max Marks: 30

Title of the Paper : FUNDAMENTALS OF COMPUTER Section A  $[6 \times 1 = 6]$ [Answer **ALL** the questions] is not a characteristic of computer a) High cost b) Speed c) Accuracy d) Flexibility 2 were used in first generation of Computers. b) Vacuum tube a) Transistors c) VLSI d) Integrated circuit Group of 8 bits is called a) Octet b) Quad c) Nibble d) Byte The equivalent decimal number of a maximum binary number of length 4 bit is a) 2 b) 5 d) 15 c) 4 Who is the father of the computer? a) Charles Babbage b) John Napier c) Blaise Pascal d) Lady Ada Lovelace Binary Equivalent for(A5)<sub>16</sub>=(?)<sub>2</sub> a)1010 0101 b)11100110 c)01011010 d)10101011 **Section B**  $[2 \times 7 = 14]$ [Answer **ALL** the questions] 7. a) What are the capabilities of computer? Explain them. [ OR ] b) Discuss the different generation of computers in details. 8. a) Explain the method for converting Binary to Decimal with example. [OR] b) What are the advantages of using Decimal number System? Section C  $[1 \times 10 = 10]$ 

[Answer ANY ONE question]

- 9. Discuss the different types of computers on the basis of processing data.
- 10. Perform the following:

a) $(11000.0011)_2 = (?)_{10}$ 

b)  $(87.8125)_{10} = (?)_2$ 



INTERNAL ASSESSMENT TEST - I

Class : II BCA A& B Date : 21-08-17
Paper Code : UCA16A31 Time : 12-1pm
Title of the Paper : Computer Based Financial Accounting Max Marks : 30

#### Section A

 $[6 \times 1 = 6]$ 

[Answer **ALL** the questions]

- 1. Accounting principles are generally based on -----
  - a) practicability b) subjectivity c) necessity d) convenience in recording
- 2. Dual aspect concept result in the accounting equation.
  - a) Capital = Assets+ Liabilities b) Capital = Assets Liabilities
  - c) Assets = Capital Liabilities d)Liabilities = Assets + Capital
- 3. As per the business entity concept business is different from the -----
  - a) owner b) banker c) government d) debtor
- 4. ----is a book of original entry.
- a) ledger b)journal c) balance sheet d) trial balance
- 5. Trial balance is prepared to fid out the-----
- a) profit or loss b)financial position c) arithmetical accuracy d) none of these
- 6. Posting on the credit side of an account is written as -----
- a) To b) By c) Being d) none

#### Section B

 $[2 \times 7 = 14]$ 

[ OR ]

#### [Answer **ALL** the questions]

- 7. a) Explain the accounting concepts in detail.
  - b) what are the types of accounting and mention the accounting rules.
- 8. a) Journalize the following transactions of Mr. Moorthy:-

2015		₹
Feb 3	Received cash from Ram Kumar	60000
4	Purchased goods for cash	15000
11	Soldgoods to Damodaran	22000
13	Paid to Ram Kumar	40000
17	Received from Damodaran	20000
20	Bought furniture from Jegadeesan	5000
27	Paid rent	1200
29	Paid salary	2500
	. [ (10.1)	

[OR]

Reg. No:



G.T.N.ARTS COLLEGE (Autonomous)
(Affiliated to Madurai Kamaraj University)
(Accredited by NAAC with 'B' Grade)
ODD SEMESTER [2017-18]

INTERNAL ASSESSMENT TEST - I

Class : II BCA A& B Date : 21-08-17
Paper Code : UCA16A31 Time : 12-1pm
Title of the Paper : Computer Based Financial Accounting Max Marks : 30

Section A

 $[6 \times 1 = 6]$ 

[Answer **ALL** the questions]

- 1. Accounting principles are generally based on ----
  - a) practicability b) subjectivity c) necessity d) convenience in recording
- 2. Dual aspect concept result in the accounting equation.
  - a) Capital = Assets+ Liabilities b) Capital = Assets Liabilities
  - c) Assets = Capital Liabilities d)Liabilities = Assets + Capital
- 3. As per the business entity concept business is different from the -----
  - a) owner b) banker c) government d) debtor
- 4. ----is a book of original entry.
  - a) ledger b)journal c) balance sheet d) trial balance
- 5. Trial balance is prepared to fid out the-----
- a) profit or loss b)financial position c) arithmetical accuracy d) none of these
- 6. Posting on the credit side of an account is written as -----
- a) To b) By c) Being d) none

Section B

 $[2 \times 7 = 14]$ 

[ OR ]

[Answer **ALL** the questions]

- 7. a) Explain the accounting concepts in detail.
  - b) what are the types of accounting and mention the accounting rules.
- 8. a) Journalize the following transactions of Mr. Moorthy:-

2015		₹
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11	Soldgoods to Damodaran	22000
13	Paid to Ram Kumar	40000
17	Received from Damodaran	20000
20	Bought furniture from Jegadeesan	5000
27	Paid rent	1200
29	Paid salary	2500

[ OR ]

b) Record the following transactions in the ledger of Mr. Radha and balance the same:

2009		₹
Jan 1	Radha commenced business with cash	15000
3	Paid into bank	5000
5	Bought goods for	3600
10	Sold goods for	2500
11	Withdrew cash from bank	600

Section C [1 x 10 = 10] [Answer ANY ONE question]

9.Prepare Trial balance of Gopal Traders as on 30th June 2008, from the following details:-Capital - 50000; Cash at bank - 2000; Cash in hand - 500; Loan - 10000; Land - 13500; Sundry Creditors - 12200; Printing - 1200; Carriage - 800; Insurance - 800; Drawings - 6000; Sundry Debtors - 15000; Discount (cr) - 2400; Buildings - 30000; Wages - 15000; Salaries - 10000; Sales - 125000; Coal - 2200; Rent - 1800; Closing Stock - 8000; Purchase - 70000; Machinery - 12000; Discount (Dr) - 3800; Furniture - 7000.

10.Journ	alize t	he following transactions in the books of Anbu:- 2014	Rs
Jan	1	Started business with cash	9000
	1	Paid into bank	5000
	2	Goods purchased for cash	3000
	3	Purchase of furniture and payment by cheque	1000
	5	Sold goods to Balaram for cash	1200
	8	Sold goods to Arun	800
	10	Goods taken over by Anbu for personal use	500
	10	Goods purchased from Anand 4000	
	15	Received cash from Arun 790 and discount allowed to him	10
	2	Cash paid to Anand 3950 in full settlement of his account.	

b) Record the following transactions in the ledger of Mr. Radha and balance the same:

2009		₹
Jan 1	Radha commenced business with cash	15000
3	Paid into bank	5000
5	Bought goods for	3600
10	Sold goods for	2500
11	Withdrew cash from bank	600

Section C  $[1 \times 10 = 10]$  [Answer ANY ONE question]

9.Prepare Trial balance of Gopal Traders as on 30th June 2008, from the following details: Capital - 50000; Cash at bank - 2000; Cash in hand - 500; Loan - 10000; Land - 13500; Sundry Creditors - 12200; Printing - 1200; Carriage - 800; Insurance - 800; Drawings - 6000; Sundry Debtors - 15000; Discount (cr) - 2400; Buildings - 30000; Wages - 15000; Salaries - 10000; Sales - 125000; Coal - 2200; Rent - 1800; Closing Stock - 8000; Purchase - 70000; Machinery - 12000; Discount (Dr) - 3800; Furniture - 7000.

10.Journa	alize the	following transactions in the books of Anbu:- 2014	Rs
Jan	1	Started business with cash	9000
	1	Paid into bank	5000
	2	Goods purchased for cash	3000
	3	Purchase of furniture and payment by cheque	1000
	5	Sold goods to Balaram for cash	1200
	8	Sold goods to Arun	800
	10	Goods taken over by Anbu for personal use	500
	10	Goods purchased from Anand	4000
	15	Received cash from Arun 790 and discount allowed to him	10
	20	Cash paid to Anand 3950 in full settlement of his account.	

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		Reg. 110.					



#### **ODD SEMESTER [2017-18]** INTERNAL ASSESSMENT TEST - II

Class	: II B.C.A.	Date: 24-10-17
Paper Code	: SCAGC31	Time : <b>12-1 pm</b>

Title of the Paper : JAVA PROGRAMMING Max Marks: 30

	· · · · · · · · · · · · · · · · · · ·	
	Section A	$[6 \times 1 = 6]$
	[Answer <b>ALL</b> the questions]	
1	The first thread to be executed is thread.	
	a) Main b) alive	
	c) Child d) first	
2	The method is the first method to be called.	
	a) init() b) start()	
	c) load() d) run()	
3	The executes a call to run()	
	a) try b) catch	
	c) start() d) thread	1
4	An exception is an abnormal condition that arise in code sequ	ence attime.
	a) design b) run	
	c) compile d) testing	
5	Program statements that you want to monitor for exceptions ar	e contained within
	ablock.	
	a) catch b) try	
	c) throw d) finally	
6	Thereader class allows one or more character to	be returned to the input
	stream.	•
	a) file b) pushb	ack
	c) character d) byte	
	•	
	Section B	$[2 \times 7 = 14]$
	[Answer <b>ALL</b> the questions]	
7.	a) Explain the wrapper class types. [OR]	
	b) Write notes on <b>string buffer class.</b>	
8.	a) Explain the <b>iostreams</b> in java. [OR]	
	b) Write a program for <b>random access</b> file.	
	Section C	$[1 \times 10 = 10]$
	[Answer ANY ONE question]	[
9. I	Explain <b>exception in java</b> with an example.	
	Discuss about <b>threads</b> with an example	
10.1		

Reg. No:				
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#### G.T.N.ARTS COLLEGE (Autonomous) (Affiliated to Madurai Kamaraj University) (Accredited by NAAC with 'B' Grade) **ODD SEMESTER [2017-18]**

INTERNAL ASSESSMENT TEST - II

Class : **II B.C.A.** Date: 24-10-17

Paper Code Title of the	: SCAGC31 Paper : JAVA PROGRAMMING			Time : <b>12- 1 pm</b> Max Marks : <b>30</b>
	Section A			$[6 \times 1 = 6]$
	[Answer <b>ALL</b> the c	questions]	]	
1 The f	irst thread to be executed is	thread	•	
a) .	Main	b)	alive	
c) (	Child	d)	first	
2 The_	method is the first method to	be called		
a) i	nit()	b)	start()	
	oad()	d)	run()	
3 The	executes a call to run()			
a) 1	try	b)	catch	
	start()	d)	thread	
	xception is an abnormal condition that ar	rise in coo	de sequence a	ittime.
	design	b) r		
	compile		esting	
5 Progr	am statements that you want to monitor f	for except	tions are cont	ained within
a	block.			
a) cat		b) ti	•	
c) thr			inally	
	reader class allows one or m	nore chara	icter to be ret	urned to the input
strear				
· · ·	file	b)	pushback	
c) (	character	d)	byte	
	Section B			$[2 \times 7 = 14]$
	[Answer <b>ALL</b> the questions]			
	Explain the wrapper class types.	[ OR ]		
	Write notes on string buffer class.			
	Explain the <b>iostreams</b> in java.	[ OR ]		
b) `	Write a program for <b>random access</b> file.			
	Section C			$[1 \times 10 = 10]$
	[Answer ANY ONE question	าไ		[1 10 10]
9. Explain	<b>exception in java</b> with an example.	,1		
-	about <b>threads</b> with an example.			

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Class								
Clas	er Code : SCAGA31	Date: 25-10-17						
		Time: 12-1 pm ter Programming Max Marks: 30						
11116	e of the Paper : <b>Digital Principles and Compu</b>	ter Frogramming Wax Warks . 30						
	Section A	$[6 \times 1 = 6]$						
	[Answer ALL the qu	nestions]						
1	Subtract the following: 01001111-00000101	1) 10101010						
	a) 01001010	b) 10101010						
_	c) 01001100	d)101101010						
2	What is the 2's complement representation of 1							
	a) 00101001	b) 00101001						
_	c)11110110	d)01101001						
3	A logic circuit with three inputs and two output							
	a) Full adder	b) Half adder						
	c) Look ahead carry	d) Parallel adder						
4	The instruction read from memory is placed in							
	a)AR	b) AC						
	c)IR	d) TR						
5	the control logic is implemented with ga							
	a) Multiplexer	b) Hardwired control						
	c) micro programmed control	d) computer instructions						
6	A sequence of micro instructions constitutes a_							
	a) Micro Operation	b) Micro Instruction						
	c) Micro Program	d) Control memory						
	Section B	$[2 \times 7 = 14]$						
[Answer ALL the questions]								
7.	a) Show how to add 150 <sub>10</sub> and 85 <sub>10</sub> with unsign	ed 8 bit numbers. [OR]						
	b)Draw circuit for Half adder and Explain it.							
8.	a) What is the difference between a direct and it	ndirect address instruction?						
	[ OR ]							
	b) Describe about Instruction cycle.							
	Section C	$[1 \times 10 = 10]$						
	[Answer ANY ONE question]							
	Convert the following sign magnitude numbers int	o decimal equivalents						
	a)00110110 b)101000							
(	c)11111000 d)10001	10001110101						

10. Explain in details about Micro Programmed Control

Class

Paper Code

Title of the Paper

a)00110110

c)11111000

9. Convert the following sign magnitude numbers into decimal equivalents

10. Explain in details about Micro Programmed Control

b)10100001

d)1000110001110101

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Section A				[6	5 x 1	= 6	5]	
[Answer ALL the que	stions	]						
Subtract the following: 01001111-00000101		-						
a) 01001010	b) 1	0101010	0					
c) 01001100		1101010						
What is the 2's complement representation of 110	,		,					
a) 00101001		0010100	1					
c)11110110		1101001						
A logic circuit with three inputs and two outputs		110100	-					
a) Full adder		—— Half add	er					
c) Look ahead carry		Parallel a		r				
The instruction read from memory is placed in th		urumor	uaacı					
a)AR	b) A	AC						
c)IR	d) [							
the control logic is implemented with gate			ecodo	er an	d of	ther	cir	cuits
a) Multiplexer		Hardwire					011	Jares
c) micro programmed control	,	compute						
A sequence of micro instructions constitutes a	۵, ۱	ompare.				,		
a) Micro Operation	b)	Micro	Instr	netio	on			
c) Micro Program	d)	Contro						
Section B	/				•	x 7 :	= 14	41
[Answer <b>ALL</b> the questions]					Ĺ- ·		-	. 1
a) Show how to add 150 <sub>10</sub> and 85 <sub>10</sub> with unsigned	18 bit	number	·s		Г	OF	2 1	
b)Draw circuit for Half adder and Explain it.	. 0 010	namoer			L	-	• 1	
a) What is the difference between a direct and inc	lirect :	address i	instri	nctio	n?			
[ OR ]					•			
b) Describe about Instruction cycle.								
Section C				[1 x	<b>c</b> 10	= 1	.01	
[Answer <b>ANY ONE</b> question]							•	