	VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST - 625 234							
~~~~	Ι	DEPARTMENT C	OF COMPUTER SC	LIENCE				
	<b>Course Code:</b> 10EP1A	Programme:	CIA: II Test					
	Date: 07.11.2020	Course:	COMPUTER SCIENCE	Semester: V				
HAND HEART HEAD	Time: 2Hrs	Year:	III	Maximum: 50	) Marks			
	Course Title:		CLOUD COMP	UTING				
$SECTION - A \qquad (10 \text{ x } 1 = 10)$								
ANSWER AI	L THE OUESTIONS				,			
1. Which is	not a major cloud comp	utingplatform?			<b>CO2</b>			
A.Goog	le101 B. IBM I	Deepblue C. Mic	crosoftAzure D. Am	nazonEC2	001			
2. "Cloud" i	n cloud computing repre	sentswhat?			<b>CO2</b>			
A. Wire	less B. Hardd	rives C. Peo	ple	D. Internet				
3. Which of	these should a company	consider before imp	lementing cloud comp	utingtechnology?CO	02			
A. Emp. C. Infor	loyeesatisfaction B	. Potential costreduc	ction					
C. IIIOI	mationsensitivityD. And							
4. What exac	tly is cloudcomputing?				<b>CO2</b>			
A. A way	to organize desktopcomp	outers						
B. Lightw	eight software that takes	up little space on a	harddrive					
C. Compu	ting resources that can b	e accessed on dema	nd, likeelectricity from	n atility				
D. The wo	orla wideweb							
5. What wid	elv used service is built o	on cloud-computing	technology?					
A. Twitter	B. Skype	C. Gmail	D. YouTube		<b>CO2</b>			
6. Which of	these techniques is vital	for creating cloud-	computing centers?		<b>G03</b>			
A. Virtualiza	ation B. Transubstantia	tion C.Cannibaliza	tion D.Insubordina	ition	CO3			
7 An intern	al cloud is				CO3			
A. An overh	angingthreat				000			
B. A career	risk for aCIO							
C. A cloud t	hat sits behind a corpora	tefirewall						
D. The grou	p of knowledge workers	who use a social ne	twork forwater-					
coolergossip	)							
8 Match the	provider with the cloud	basadsarvica			CO3			
A. Amazon1	Azure B.IBM2.	Elastic ComputeClo	oud		005			
B. EMC3.D	echo C. Micro	soft4.Cloudburst						
9. Cloud cor	nputing embraces many	concepts that were p	previously touted as the	e next big thing in inf	ormation			
technology.	Which of these is not an	antecedent of theck	oud?		001			
A. Software	as aservice. B.Utility	computing C.Ren	note hostedservices	D.Gridcomputing	003			
10 IBM EN	AC and Boeing Co. were	among the compan	ies signing what					
document w	hose title is reminiscent	of a famous politica	l statement?					
A. Declarati	on of CloudComputing	B. The Rights	ofCloud					
B. MeinClou	ud	D. Open Clou	dManifesto		<b>CO3</b>			

SECTION – B	$(5 \mathbf{x} 2 = 10)$
ANSWER ANY FIVE OF THE FOLLOWING:	
11. Define cloud IaaS?	CO2
12. Give any fourexample for SaaS?	CO2
13. What are the role of cloud challenges?	CO2
14. What is meant by cloud security?	CO2
15. Expand:OGF, OMG.	CO3
16. Define smoke testing.	CO3
17. Define DMTF?	CO3
SECTION – C	(3 x 6 = 18)
ANSWER ANY THREE OF THE FOLLOWING	
18. Brief a note on uses of cloud delivery models in cloud computing?	CO2
19. Write a summary on web based business services?	CO2
20. Brief a note on the seven step inCloud computing?	CO2
21. Selecting the right scalable application in cloud.	CO3
22. Understanding the best practices used in selection of cloud service.	CO3
SECTION – D	(1  x  12 = 12)
ANSWER ANY ONE OF THE FOLLOWING	
23. Enumerate on the obstacles for cloud technology.	CO2
24. Explain the system testing cloud.	CO3

$\sim$	T	I	DEPARTMENT (	OF COMPUTER SC	IENCE			
The second secon		<b>Course Code:</b> 10SB31	Programme:	B.SC	CIA: II Test			
		<b>Date:</b> 02.11.2020	Course:	COMPUTER SCIENCE	Semester: III			
	ARI	Time: 1 Hrs	Year:	II	Maximum: 25 Marks			
		Course Title:		<b>OPERATING SY</b>	<b>STEM</b>			
		S	ECTION-A					
Answer ALL questions: (05X01=05)								
<b>CO2</b>	1. Mair	n memory is divided into	separate					
000	A) Mer	nory regions B) Memo	ry partitions C) M	emory devices D) Both	n A&B			
CO3	2.  Job s	scheduling is also called pled Processing		B) Multiprogramming				
	C) Cou	pled Multiprocessing		D) Multiprocessing				
	,							
<b>CO4</b>	3. Devi	ces, channels and contro	l units are typically	called the	11			
CO4	A) Con 4 UCB	expand for	lier C) Process co	ntroller D) I/O Traffic	controller			
004	A) Unit	t Control Block	B) Unix cell H	Block				
	C) Unit	form Control Block	D) None					
CO5	CO55. The system is concerned with mapping the structure A) Symbolic fineB) Physical fileC) Basic fileD) Logical file							
		S	ECTION-B					
Answe	er any T	WO questions:		( <b>02X0</b> 2	<b>2=04</b> )			
000								
CO2	6. Defii	ne Multi Programming.						
CO3	7. What a job scheduling?							
CO4	<b>14</b> 8. What is mean by storage device?							
CO5	<b>D5</b> 9. Define a file system?							
		S	ECTION-C					
Answe	er any C	ONE question:		(01X6=	=06)			
CO2	10. Wr	ite a Short Notes on Re-I	ocatable Partitione	d Memory Allocation.				
<b>GO</b> 4								

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CO4 11. Discuss about the Channels and Control Units.

# Answer any ONE question:

SECTION-D

(01X10=10)

**CO3** 12. Explain about the State Model.

CO5 13. Explain about the Logical File System and Access Verification Controls.

~	VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST - 625 234									
	Course Code:									
	10SB51	Programme:	B.SC	CIA: II Test						
	<b>Date:</b> 02.11.2020	Course:	COMPUTER SCIENCE	Semester: V						
ALL HEARING	Time: 1 Hrs	Year:	III	Maximum: 25 Marks						
	<b>Course Title:</b>		Competitive Exam	for IT						
	SECTION-A									
Answer the al	l questions		(50*1=5	0)						
1) A) Arrange	the words given below in	a meaningful sequ	ence.							
I. Incor	ne II. Status III	I. Education	IV. Well-being V	'. Job						
A) 3,1,5	5,2,4 B) 1,3,2,5	6,4 C) 1,2	,5,3,4 D) 3,5,1,	2,4						
B) Find odd	I man out			21						
$\begin{array}{c} A \end{pmatrix} OR \\ 2 \end{pmatrix} A \end{pmatrix} Arrange$	ACLE B) BASIC	C) PA	D $D$ $COB$	JL						
<i>2)</i> A) Allange	es II Branch II	Flower IV Tr	ence. V Fruit							
$\begin{array}{c} \text{A} \\ $	125 B) $4251$	3 (1) 43	215 D) 4 2 1	3 5						
B) What pro	tocols used between E-N	Iail servers	,2,1,5 D) 1,2,1,	5,5						
A) FTP	P B) SMTP	C) SN	MP D) P0P3							
3) A) Forecast	:: Future::Regret::?	,	,							
A) Pres	sent B) A tone	c) Sin	s D) Past							
B) Which w	ord does not belongs to o	others								
A) Bud	B) Tulip	C) Dai	by D) Rose							
4) A) Doctor::	Patient::Politician::?									
A) VOD D) Eind the	er B) Chair	C) MO	D) Public	2						
B) Filld the		G K	М							
- B - Y		T P	<u>- 101</u> - 2							
A) L	B) S	C N	<u>.</u> D) ()							
5) A) How man	ny circles are there in the	adjoining figure?	D							
	)	5 6 6								
	$\prec$									
LAL.	$\mathcal{Y}$									
	<b>(</b> )									
A) 18	B) 24	C) 20	D) 14							
B) The hexa	decimal number C3 conv	vert to binary number	er is							
A) 111	1 B) 11001	1 C) 111	100 D) 11000	0011						
6) A) Find odd	man out									
A) Apr	il B) June C	) September	D) May							
B)										
o⊖●										
Llo L										
(1) (2	) (3) (4)									
Α \ 1										
A) 1	$\mathbf{D}$ ) 2 $\mathbf{C}$	D) 4								
7) A) HEART	= @8531: FEAST= #854	1: FARTHEST=?								
A) #54	1@831 B) #831@	2541 C) @5	(41#831 D) #531	@841						
B) 5% of 5%	6 of Rs. 100 is	0,00								
A) Rs.	25 B) Rs. 0.5	50 C) Rs.	10 D) Rs. 0.2	25						
8) A) Where is	RAM located?									

A) Expansion Board B) External Drive C) Motherboards D) None B) 77% of 64=? B) 49.28 C) 48.29 A) 47.28 D) 49.27 9) A) If a computer has more than one processor then it is known as ? A)Uniprocessor B) Multiprogramming C)Multithreaded D) Multiprocessor B) 28% of 450+45% 280 A) 256 **B)** 252 C) 305 D) 352 10) A)  $(489+375)^2 - (489-375)^2 = ?$ (489*375)A) 4 B) 5 C) 40 D) 52 _ percentage equals. B) The ratio 5:4 Expressed as a _____ C) 175% D) 176% A) 125% B) 126% 11) A)  $(963+476)^2 + (963-476)^2 = ?$ (963*476) A) 4 B) 5 C) 6 D) 2 B) In a certain code Languages 461 means 'where are you', 169 means 'you are good' and 8652 means 'flowers are not bad'. How will 'where not are good flowers' be written in that code Language? D) Data inadequate B) 46598 C) 45698 A) 68954 12) A) 7:12 is equivalent to A) 28:40 B) 42:71 C) 42:72 D) 72:42 B) If C=3 and POLISH=79, then POINTER=? A) 98 B) 97 C) 96 D) 95 13) A) A ratio equivalent to 3:7 is B) 6:10 D) 18:49 A) 9:21 C) 3:9 B) If 'blue' means 'green', 'green' means 'white', 'white' means 'yellow', 'yellow' means 'black', 'black' means 'red' and 'red' means 'brown', that what is color of 'Blood'? A) Yellow B) Green C) Brown D) Black 14) A) In a class there are 20 boys & 15 girls. The ratio of boys to girls are B) 4:5 C) 3:9 D) 18:49 A) 4:3 B) If 'blue' means 'green', 'green' means 'white', 'white' means 'yellow', 'yellow' means 'black', 'black' means 'red' and 'red' means 'brown', that what is cooler of 'milk'? B) Green C) Brown D) Black A) Yellow 15) A) The L.C.M of number is 2,4,32,8 find the value B) 65 C) 60 D) 63 A) 32 B) Pointing towards a day, Veena said, "He is the son of the only son of my Grandfather." How is that boy related to Veena? A) Uncle D) None B) Brother C) Cousin 16) A) The L.C.M of two number is 2,13=?A) 15 B) 25 C) 26 D) 28 B) Ram is the brother of Arun. Sana is the sister of Tina. Arun is the son of Sana. How is Ram related to Sana? A) Brother B) Uncle C) Son D) Father 17) A) The L.C.M of two number is 12,30=?A) 58 B) 60 C) 62 D) 64 B) Can you Solve  $7 + 7 \div 7 + 7 \times 7 + 7 - 7 \div 7 + 7 \times 7 = ?$ A) 112 B) 56 C) 0 D) 98 18) A) The L.C.M of two number is 30,42=?A) 630 B) 635 C) 220 D) 210 B) A man walks 5km east, turns left & walks another 5 km. Again he takes a left turn & walks 5km. Which direction on is he facing now? B) East A) West C) South D) North 19) A) 2√1225=? A) 35 B) 30 C) 45 D) 25

B) Home D is 10 km, towards the North of House A. Home C is 15km towards the west of Home D. Home B is 15km towards the west of Home A. How far and in which direction is Home B from Home C? B) West C) North D) South A) East 20) A) 2√9025=? A) 85 B) 75 C) 95 D) 90 B) The Hexadecimal number system consists of the B) 0-9, A-E D) 0-9, A-F A) 0-15 C) 0-7, A-F 21) A) 3√125=? A) 10 B) 5 C) 25 D) 15 B) Data in a computer can be represented as A) Hexa-Decimal B) Decimal C) Binary D) All of these 22) A) Arrange the words given below in a meaningful sequence **I.Police II**.Punishment **III.Crime** IV.Judge V.Judgement D) 3,1,4,5,2 A) 3,1,2,4,5 B) 1,2,3,4,5 C) 5,4,3,2,1 B) Find the odd letter from the given alternatives. B) Diving C) Swimming D) None of the above A) Driving 23) A) If T=40; DOG=52; BALL=? A) 29 B) 32 C) 54 D) 35 B) We can draw a pie-graph in a_ C) Access A) Excel B) Power point D) Word 24) A) A teacher can develop a question bank with the help of C) Access B) Power point A) Excel D) Word B) M-S word is an example of B) Application S/W C) OS A) System S/W D) Translating program 25) A) A byte is equal to C) 8 Bits A) 32 Bits B) 16 Bits D) 4 Bits B) The VIRUS is a A) S/W Program B) H/W C) Device D) None of the above

	VIVEKANANDA	COLLEGE, TIRU	JVEDAKAM WEST	- 625 234				
	Ι	DEPARTMENT C	OF COMPUTER SC	IENCE				
	Course Code:	Programme:	B.SC	CIA: II Test				
	Date: 07.11.2020	Course:	COMPUTER SCIENCE	Semester: I				
HANDHEARTHEAD	Time: 2Hrs	Year:	I	Maximum: 50 Marks				
	Course Title:	DISCRETE MATHE	EMATICS					
SECTION-A								
Answer all que	stions	SLerio						
1			(10X1=	10)				
1) An empty s	et is denoted by							
a) Null	b) { } c) a & b	d) none	CO1					
2) If R is refle	xive, symmetric and tran	sitive then the relation	ion is said to be	<u> </u>				
a) Binary re	elation b)	Compatibility relat	ion					
c) Equivale	nce relation d)	Partial order	CO1					
3) A finite non	-empty set of symbols is	called						
a) alphabet	b) letter c) string	d) language	CO1					
4) One to one of	onto function is also calle	ed						
a) bijective	b) injective c) surject	tive d) composite	function CO1					
5) Let $R = \{(3, $	3), (6, 6), (9, 9), (12,12)	, (3,6), (6,3), (3, 9),	(9, 3), (9, 12),(12,9)} b	be a relation on the set $A = \{3, $				
6, 9, 12}. The	relation is							
a) Reflexive	e and transitive	b) reflexive a	nd symmetric					
c) symmetrie	c and transitive	d) Equivalenc	e relation COI					
6) Individual C	bjects in a set are called		001					
a) Element	b) set c) list d) N	one of above	COI					
7) A group or	b) set a) list d	alled	CO1					
a) Element 8) There are or	b) set c) list u	group	ordered sets that contai	n elements				
a) $2$ b) $3$	c) A = d) 6	igrains for partially	CO1	IIIelements.				
9) $A = \{1, 3\}$	579 is a		COI					
a) Null set	b) finite set c) singleto	on set d) infinite se	et CO1					
10) Let $R = \{(1, 1)\}$	3) $(4 \ 2)$ $(2 \ 2)$ $(3 \ 3)$	$(1 \ 1) (4 \ 4)$ be a reference of the second sec	lation on the set $A = \{1$	2 3 4 The relation R is				
a) Transitive	(1, 2), (2, 2), (3, 3), b) reflexive c) not s	(1, 1), (1, 1), be u results with the second seco	tion CO1	2, 3, 1). The relation is <u></u> .				
••)		)						
		SECTIO	N-B					
Answer any FI	VE questions		(5X2=1	0)				
11) Define Set	ts		CO1					
12) Define Fu	nctions		CO1					
13) Define Re	lations		CO1					
14) Write the	types of relations		C01					
15) Write the	types of functions		C01					
16) Define G	raphs		CO5					
17) Define Tr	ees		CO5					
A		SECTIO	N-C (2V( 1	<b>9</b> )				
Answer any IF	ikee questions		(3A0=1 CO1	8)				
10)  Witte above  10)  I at  11-(1)	$23$ 10 $\lambda - 125$	70) R=17169	$10\} c= \{3, 6, 0\}$					
Find the I	, -, -, -, -, -, -, -, -, -, -, -, -, -,	$, , , , , , $ D={2,4,0,0	,10; v={3,0,3} CO1					
20) Discuss at	Sout relation		C01					
21) Let f:Z to	Z be a function defined $\mathbf{i}$	ov $f(x)=2X+3$ let $\sigma$	Z to Z be a function def	ined by $g(x)=3X+2$ . Find i)for				
ii)gof		CO1						
/0 = =								

22) Draw the recursive tree for merge sort of the list 9,7,11,4,5,3,6,8,12,10 **CO5** 

# **SECTION-D**

24) Suppose that I is defined recursively by $f(0) = 2$ , $f(1+1) = 5f(1) + 2$ , Find $f(1), f(2), f(3), f(3)$	24)	Suppose that f is defined recursively by $f(0) = 2$ , $f(n+1) = 3f(n) + 2$ , Find $f(1), f(2), f(3), f(4)$	<b>CO4</b>
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~~~	DEPARTMENT OF COMPUTER SCIENCE								
	Course Code: 10AT31	Programme:	B.SC	CIA: II Test					
	Date: 07.11.2020	Course:	COMPUTER SCIENCE	Semester: III					
CAND HEART HEAD	Time: 2Hrs	Year:	II	Maximum: 50 Marks					
	Course Title:	·	OPERATIONS RE	SEARCH					
SECTION-A									
Answer all the	questions		(10X1=10)						
1. in an assigni	ment problem,	CO5							
(a) One agent of	can do parts of several tag	sks (b) One task ca	an be done by several a	agents					
(c) Each agent	is assigned to its own be	st task (d) Nor	ne of the above						
2. If number of	f rows and columns equa	l to number of alloca	ated zero's then the pro	oblem is called					
CO5									
a) Balanced	b) Unbalanced c) optimu	m d) not optimum	n						
3. The unbalan	ced assignment problem	is said to be	CO5	1					
a) rows=colum	ins b) rows≠columns	s c) order of mat	trix=assigning zero's	d)none					
4. The applicat	ion of assignment proble	ems is to obtain	CO5	C1 .					
a. only minimu	im cost. b.only maximum	n profit. 'c. minimun	n cost or maximum pro	ofit.					
d. Optimal Ass	ignment	1 1 1 1 0		~-					
5. The assignm	ient problem is said to be	balanced if cost ma	trix 18 C	05					
a. square matri	x. b.rectangular ma	trix. c. unit matrix .	d.triangular ma						
6. In Assignme	ent problem if total suppl	y < total demand we							
a. dummy row	with cost 0. b.dummy	column with cost 0.	. c. dummy row with	cost 1. d.dummy column with					
COSt 1.	noo of doconomous while	a luina a transportat	tion nuchlam maans the						
/. The occurre	nce of degeneracy while	D the solution	tion problem means the	alCO4					
A. total supply	equals total demand	D. the solution D non-a of the	so obtained is not leas	sible					
C. the lew and	cations become negative	D. none of the	above						
A Equal to m	$\begin{array}{ccc} \text{Inerate solution number } 0 \\ \text{In } 1 \\ \textbf{D} \\ \end{array}$	r = 1	$\underline{\qquad}$.CU4	of above					
A. Equal to III	on problem is a special of	litii-i C. Equ	CO4	JI above					
o I DD	b Assignment problem	ass 01	d both 1 and 2						
a.LFF. D.Assignment problem. C.none of the two. a.both 1 and 2.									
a) total and	to b)total chinning	produit for locationa	u analysis is to minimi	LECO4					
a) total cos	ts b)total shipping		variable costs ujtota	I fixed costs					
SECTION-B									
Answer any FI	VE questions		(5X2=10)						
11. Define OR	CO1								
12. Define Ma	ximization in Assignmen	t Problem. What are	the procedure to solve	e it? CO5					
13. Give the m	athematical formulation	of Assignment Prob	lemCO5						
14. Define unb	alanced assignment prob	olem CO5							
15 Define Are	is a set a set la set la set COF								

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15. Define Assignment problemCO5
16. Give any difference between transportation problem and assignment problem CO4
17. Define Maximization in transportation Problem. What are the procedure to solve it? CO4

SECTION-C

Answer any THREE questions

(**3X6=18**)

 Write working procedure of graphical method
 Solve the following assignment problem CO5 **CO2**

	Operators					
		Ι	II	III	IV	
	Α	8	26	17	11	
Machine	B	13	28	4	26	
	С	38	19	18	15	
	D	19	26	24	10	

20. Find IBFS using VAM method to get Maximum profit CO4

	De	stina	ntion			
SOURCE		Α	B	С	D	SUPPLY
	1	15	51	42	33	23
	2	80	42	26	81	44
	3	90	40	66	60	33
DEMAND		23	31	16	30	

21. Solve the following assignment problem JOBS							CO5
PERSONS	A B	1 8 0	2 4 9	3 2 5	5 6 5	5 1 4	
	С	3	8	9	2	6	
	D	4	3	1	0	3	
	Е	9	5	8	9	5	

22. Solve the following assignment problem	CO5

. MACHINES							
		M1	M2	M3	M4		
	J1	5	7	11	6		
JOBS	J 2	8	5	9	6		
	J3	4	7	10	7		
	J4	10	4	8	3		

SECTION-D

Answer any ONE

(1X12=12)

23. Explain Hungarian algorithm method **CO5**

	-	0	0					
24.	Solve the	following	assignment	problem to	find the	maximum total e	expected sale	CO5
			Area					

		~~		
salesman	Ι	Π	III	IV
Α	18	24	28	32
B	8	13	17	19
С	10	15	19	22

I	VIVEKANANDA	COLLEGE, TIRU	JVEDAKAM WEST	- 625 234
THE WE	Course Code:	DEPARTMENT C	DF COMPUTER SC	
	10CT11	Programme:	B.SC	CIA: II Test
	Date: 03.11.2020	Course:	COMPUTER SCIENCE	Semester: I
A CALLE HEARING	Time: 2Hrs	Year:	Ι	Maximum: 50 Marks
	Course Title:		PROGRAMMIN	G IN C
A norman all and	ationa	SECTIO	N-A (10 V 1_	-10)
Answer an que	estions		(10A1=	-10)
1. charact	er array always ends with_	·	CO2	
A. null D. excl	(0) character. B. question	on mark (?).	C. full stop(.).	
2. Which	header file is essential for u	using strcmp() function	n? CO2	
A. strin	ng.h; B. strings.h; C	. text.h; D. stren	mp.h	
3. Which	among the following is a up	nconditional control st	tructure?	
4. How m	any times the following loc	on will execute?	CO2	
void ma	ain()		001	
{	0			
for (a = printf("	= 0; a < 4; a++) 'hello")·			
}	neno),			
A 3	B 4 C 5 D infinite			
5. The A brea	k B continue C	lps immediate exit fro	om any part of the loop C	202
6. The	loop ex	xecutes at least once.	CO2	
A. for	B. while C	. do-while D. whi	le & do-while	
/. All key A uppe	ywords must be written in _	 Cwith	in codes D separately	
8. A mult	tidimensional array A[10][9	9] can store num	nber of elements	CO2
A 91	B 88 C 90 D 89		4 0	
9. If $str' = A 4$	is a string of 7 characters, the B 7 C 6 D 0	he statement printf("%	o4s", str); will display	characters. CO2
10. Find ou	at on which line number yo	ou will get an error ?	CO2	
Line 1:	void main ()			
Line 2: Line 3:	{ print("\n Hello World")			
Line 4:	}			
A)	Line 1 B) Line 2 C) Line 3	3 D) Line 4		
		SE	CTION-B	
Answer any Fl	IVE questions		(5X2=1	.0)
11. Define	String	CO2		
12. Write s	yntax of Array declaration	CO2		
13. Define	exit controlled loop give ex	con		
15. Define	break and continue	CO1		
16. Write a	C program to sum of 1 to	10 numbers using for 1	loop CO1	
17. write a	c program to get and disp.	iay of your marks usir	ig array CO2	
		SECTI	ON-C	
Answer any T	HREE questions	······································	(3X6=1	8)
18. Write a 19 Explain	bout Switch case statement puts() and gets() function	with example	CO1 CO2	
20. Explain	the following concepts of	Function Declaration,	Function Definition, and	l Function Call CO3
21. List out	t user defined function usag	ge CO3		
22. Write a	bout One-dimensional Arra	ay with Example SFC	CO2 TION-D	

Answer any ONE

(1X12=12)

CO1

- 23. Differentiate while and do..While looping statement with example
- 24. Explain about no arguments and no return values, arguments but no return values with example CO3

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\sim	T_		DEPARTMENT (OF COMPUTER SC	IENCE	
		Course Code: 10CT12	Programme:	B.SC	CIA: II Test	
		Date: 06.11.2020	Course:	COMPUTER SCIENCE	Semester: I	
THE REAL PROPERTY IN THE REAL PROPERTY INTERNAL PROPERTY INTERN	ARI	Time: 2Hrs	Year:	Ι	Maximum: 50 Marks	
		Course Title:		COMPUTER ORGAN	NIZATION	
			SECTIO)N-A		
Answ	er ALL	Ouestions:			(10X1=10)	
		C C				
CO2	1. In D	Flip- Flop, 'D' stands_				
	A) Dist	ant B) Desired	C) Data D) De	lay		
CO2	2. A reg	gister defined as				
	A) The	group of latches for st	oring one bit of inform	nation		
	B) The C The	group of latenes for ste	oring n-bit of information on a k	tion		
	D) The	group of flip-flops sui	table for storing binat	v information		
	D) The	Stoup of hip hops su	tuble for storing bind	y mormation		
CO3	3	is a processor that	t manipulates and per	forms arithmetic operat	ions	
	A) ALU	B) CPU	C) Motherboard	D) Control unit		
CO3	4. A set	t of instruction that per	forms task is called th	ne		
	A) Prog	gram B) Storage	C) Data	D) Software		
CO3	5. The	CPU registers is called	·			
	A) Stac	ck B) Queue	C) Program Counter	D) Stack pointer		
CO4	6	Onerend is the east	ntants of a CDU regist	- C #		
04	Δ) Δ dd	Operation is the con lress mode B) Register	er mode (C) Absolute	mode D) Immediate i	mode	
CO4	7. DM	A expand for		mode D) miniculate	linde	
	A) Dire	ect Memory Address	B) Direct Mer	mory Access		
	C) Dire	ect Message Access	D) Direct Me	ssage Address		
CO4	8. The 1	DMA devices that is al	llowed to initiate data	transfer on the bus is ca	alled the	
	A) Bus	driver B) Bus	arbiter C) Bu	s grant D) Bus master		
005		standa for				
005	9. LED $(\Delta) \downarrow i \sigma^{1}$	stands for	B) Light Embedded I	Diodes		
	C) Ligh	nting Ennueu Display	D) Lighted Emitted I	Disnlav		
CO5	10. Inci	rement the contents of	a register equivalent i	nstruction.		
	A) INR	I B) INR R	C) INC I D) IN	CR		
			,			
			SECTION-B			
Answ	er any F	IVE Questions	:		(5X2=10)	
CO2	11 Def	ine Shift Periston And	d Give the Classificat	ion of Shift Pagistar		
CO2	12. Def	fine Encoders and Deco	oders.	ion of shift register.		

CO3 13. What is BUS?

- CO3 14. Define STACK.
- CO4 15. Define DMA.
- CO4 16. Expands for the (i) MAR (ii) MDR (iii) MFC
- CO5 17. Name of any two examples on Eight bit Microprocessor?

SECTION-C

Answer any THREE Questions:

- CO2 18. Explain about Serial In-Serial Out register with neat sketch.
- CO3 19. Explain about the BUS structure with neat Diagram.
- **CO3** 20. Write short notes LIFO & FIFO with neat structure.
- CO4 21. Explain about the DMA with neat diagram
- CO4 22. Discuss about the Different types Addressing Modes.

SECTION-D

Answer any ONE Questions:

(1X12=12)

- CO2 23. (i) Explain JK Flip-Flop. (ii) Explain RS Flip-Flop. (iii)Explain D Flip-Flop.
- CO5 24. Explain the 8085 Pin Function & 8085 Instruction Set.

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	I	DEPARTMENT (OF COMPUTER SC	IENCE	
	Course Code: 10CT31	Programme:	B.SC	CIA: II Test	t
	Date: 03.11.2020	Course:	COMPUTER SCIENCE	Semester:	III
HEARING	Time: 2Hrs	Year:	II	Maximum	50 Marks
	Course Title:		COMPUTER NET	WORKS	
	S	ECTION – A		()	$10 \ge 1 = 10$
ANSWER A	LL THE QUESTIONS:				
1	is the range of frequent	cies that pass thro	ough the transmission	channel minimu	im attenuation
a) bau	id rate b) bandw	idth c) mo	dulation d) atter	nuation	CO2
2. A con	nection that allows traffic	only one way is ca	lled		
a) full	l duplex b) half du	iplex c) sim	plex d) unif	orm duplex	CO2
3 FDM	A. TDMA and CDMA are		1 /	Ĩ	
a) au	tomatic repeat protocol	b) channelization n	rotocols c) bit oriente	d protocol d)	None CO2
4 Code	Division Multiple Access	differs from Time	Division Multiple Acce	e protocor e)	is no
4. Couc	dwidth () link		d) timesharing	iss because mere	
		c) carrier	d) timesharing		02
5. In Co	de Division Multiple Acce	ess (CDMA), seque	nce of code is called	_	GO •
a) chi	ps b) sets c)	encoding	d)decoding		CO2
6. HTTP	uses a TCP connection to				
a) Est	ablishment of servers com	nection b) Tra	ansfer whole database		
c) Cli	ent server connections	d) Tra	nsfer files		CO5
7. Transn	nission Control Protocol (7	Γ CP) controls the _			
a) Syr	nchronization b) Sequer	nce c) Congestion	n d) Connection		CO5
8. IANA	Stands for				
a) Inte	ernet Assigned Node Auth	ority b) Inte	ernet Assigned Native A	Authority	
c) Inte	ernet Aligned Number Au	thority d) Inte	ernet Assigned Number	Authority	CO5
9. An AC	K segment, if carrying no	data still consumes	·		
a) On	e sequence number b)) Two sequence nur	nber		
c) Th	ree sequence number d)) No sequence numl	ber		CO5
10. No re	transmission timer is set for	or an			
a) RT	b) ACK segment	c) FIN segme	nt d) Checksum s	segment	CO5

SECTION – B	(5 x 2 = 10)
ANSWER ANY FIVE OF THE FOLLOWING:	
11. Define Physical Layer?	CO2
12. Expend : TDM , PSTN	CO2
13. Define Switching.	CO2
14. What is magnetic media?	CO2
15. What are the difference MUX and DEMUX	CO2
16. Short answer the following questions	CO5
a) WWW	
b) HTTP	
17. Define digital signature?	CO5
SECTION – C	$(3 \times 6 = 18)$
SECTION – C ANSWER ANY THREE OF THE FOLLOWING	(3 x 6 = 18)
SECTION – C ANSWER ANY THREE OF THE FOLLOWING 18. Brief a note on fiber optics?	(3 x 6 = 18) CO2
SECTION – C ANSWER ANY THREE OF THE FOLLOWING 18. Brief a note on fiber optics? 19. Write a summary Public Switched telephone network?	(3 x 6 = 18) CO2 CO2
SECTION – C ANSWER ANY THREE OF THE FOLLOWING 18. Brief a note on fiber optics? 19. Write a summary Public Switched telephone network? 20. Brief a note on packet switching?	(3 x 6 = 18) CO2 CO2 CO2
SECTION – C ANSWER ANY THREE OF THE FOLLOWING 18. Brief a note on fiber optics? 19. Write a summary Public Switched telephone network? 20. Brief a note on packet switching? 21. Explain about the E-mail.	(3 x 6 = 18) CO2 CO2 CO2 CO5
SECTION – C ANSWER ANY THREE OF THE FOLLOWING 18. Brief a note on fiber optics? 19. Write a summary Public Switched telephone network? 20. Brief a note on packet switching? 21. Explain about the E-mail. 22. Explain the cryptography in computer networks?	(3 x 6 = 18) CO2 CO2 CO2 CO5 CO5
SECTION – C ANSWER ANY THREE OF THE FOLLOWING 18. Brief a note on fiber optics? 19. Write a summary Public Switched telephone network? 20. Brief a note on packet switching? 21. Explain about the E-mail. 22. Explain the cryptography in computer networks? SECTION – D	(3 x 6 = 18) CO2 CO2 CO2 CO5 CO5 (1 x 12 = 12)
SECTION – C ANSWER ANY THREE OF THE FOLLOWING 18. Brief a note on fiber optics? 19. Write a summary Public Switched telephone network? 20. Brief a note on packet switching? 21. Explain about the E-mail. 22. Explain the cryptography in computer networks? SECTION – D ANSWER ANY ONE OF THE FOLLOWING	(3 x 6 = 18) CO2 CO2 CO2 CO5 CO5 (1 x 12 = 12)
SECTION – C ANSWER ANY THREE OF THE FOLLOWING 18. Brief a note on fiber optics? 19. Write a summary Public Switched telephone network? 20. Brief a note on packet switching? 21. Explain about the E-mail. 22. Explain the cryptography in computer networks? SECTION – D ANSWER ANY ONE OF THE FOLLOWING 23. Explain the Multiplexing and types.	(3 x 6 = 18) CO2 CO2 CO2 CO5 CO5 (1 x 12 = 12) CO2

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	<b>Course Code:</b> 10CT32	Programme:	B.SC	CIA: II Test
	<b>Date:</b> 06.11.2020	Course:	COMPUTER SCIENCE	Semester: III
MANU HEARI DEAD	Time: 2Hrs	Year:	II	Maximum: 50 Marks
	<b>Course Title:</b>		COMPUTER GRA	APHICS
		SECTION – A	$(10 \times 1 = 10)$	
1. Expansion of	of DDA algorithm is	_		CO2
a) Digital I	Difference Analyzer b) I	Direct Differntial An	alyzer c) Digital Differ	ential Analyzer
d) Data D	ifferential Analyzer			
2. On a raster	system, lines are plotted	with		
a) Lines	b) Dots c) Pixels	d) none of these		CO2
3. The cartesia	an slope - intercept equat	tion for a straight line	e is	
a) y = m.x	+ b   b) y = b.x + m	c) $y = x.x + m$ d) y	v = b + m.m	CO2
4 algor	ithm is a faster method f	or calculating pixel p	positions	
a) Bresenha	am's line b) Parallel Line	e c) Midpoint d) D	DA	CO2
<ol> <li>5 is d</li> <li>a) Rectangle</li> <li>6. A translatio</li> <li>a) Repositi</li> </ol>	lefined as a set of points e b) Curve c) Circle on is applied to an object oning object along a stra	that are all at a given d) Spline by ight line path b) Rej	a distance r from a cente positioning object along	er position (x, y) CO2 g a circular path CO3
c) both a ar	nd b d) none of these			
7. Translation	of a two dimensional po	oint can be done by a	dding	
a) Translat	ion distances b) translati	on difference c) trans	slation points d) reposit	ioning CO3
8. An area on	a display device to which	h a window is a map	ped is called a	
a) Window	b) graphics c	e) Animation	d) View port	<b>CO4</b>
9. Mapping se	elected ports of a scene ir	n normalized coordin	ates to different video 1	monitors CO4
is called				
a) Rotation	b) Reflection c) wor	kstation transformati	on d) Shear transform	nation
10. A procedu	re that identifies those p	ortions of a picture the	hat are either inside or o	outside of
specified r	region of space is called			CO4
a) Compos	site transformation b) C	Clipping c) Are	a fill d) Flood fill a	lgorithm
		SECTION – B	$(5 \times 2 = 10)$	
ANSWER AN	NY FIVE OF THE FOI	LLOWING:		
11. Expand PI	HIGS?			CO2
12. Give any t	wo advantages of DDA	Line algorithm?		CO2
13. List the ba	sic attributes of a straight	nt line?		CO2 CO3
14. what is m 15. Define dif	cant by translation distant ferential scaling?			CO3
16. Define she	ear?			CO4
17. Give the u	ses of clipping?			<b>CO4</b>

# ANSWER ANY THREE OF THE FOLLOWING:

18. Summarize a note on output primitives and graphics functions?					
19. Critically analyze the working of Line Drawing algorithms?					
20. Summarize a note Raster method transformations?	CO3				
21. Critically analyze Scaling and its types?					
22. Brief a note on 2D viewing pipeline?					
<b>SECTION – D</b> $(1 \times 12 = 12)$					
ANSWER ANY ONE OF THE FOLLOWING:					

23. Explain the working of Bresenham's Algorithm with suitable illustration?	<b>CO2</b>
24. Explain the working Clipping and its types with illustrations?	<b>CO4</b>

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		<b>Course Code:</b>	Programme:	B.SC	CIA: II Test	
		<b>Date:</b> 04.11.2020	Course:	COMPUTER SCIENCE	Semester: V	
HANDHI	RIMAN	Time: 2Hrs	Year:	III	Maximum: 50	) Marks
		Course Title:		COMPUTER NETV	VORKS	
			SECTION – A	$(10 \times 1 = 10)$		
ANSW	ER AL	L THE QUESTIONS	:			
1.	Inform	ation is transmitted on c	copper wires by vary	ing		CO2
	a) Ele	ctromagnetic waves 1	b) Voltage c) Freque	encyd) Speed		
2.	The rar	nge of frequencies trans	mitted without being	strongly attenuated is ca	lled	CO2
	a) Bau	ud rate b) Bandwidth	c) Data transfer rate	d) Attenuation		
3.	Expand	d UTP. a) Unshielded T	Twisted Pair b) Uni	iversal Twisted Pair		CO2
	c) Univ	versal Terabyte paird) U	Inified Twisted pair			
4.	is	the spreading of light I	pulses in length while	e propagation through fit	per optic cable	CO2
	a) Chi	comatic Dispersion I	b) LASER c) Gra	ting d) SONAR		
5.	Expand	I PSTN.				CO2
	a) Priv	vate Switched Telephon	ne Network b) Public	c Switched Telephone No	etwork	
	b) c) I	Packet switched Telepho	one Network d) Porta	able switching telephone	network	
6.	is	a process of forwardin	g the packets from th	e source to the destination	on	CO3
	using a	routing table a) Switc	ching b) Framing	c) Routing d) Frag	mentation	
7.	In broa	dcast communication, r	elationship between	source and destination is		CO3
	a) One	to all b) Many to one	c) One to ma	ny d) One to one		
8.	Maxim	um size of TCP header	isa) 20 bytes	b) 40 bytes c)60 byt	es d) 80 bytes	CO4
9.	In User	Datagram Protocol (U	DP), queues are asso	ciated with		CO4
	a) Slo	ts b) IP o	c) Ports d) Pac	kets		
10.	Domain	n, which is used to map	an address to a name	e is called		CO5
	a) Gei	neric Domains	b) Inverse Domain	c) Main Domains	l) Sub-Domains	
			SECTION – B	( 5 x 2 = 10)		
ANSW	ER AN	Y FIVE OF THE FO	LLOWING:			
11.	Give an	ny two typestwisted pair	r wires?			CO2
12.	Give an	ny two types of fiber op	tic cables?			CO2
13.	List the	e types of Coaxial Cable	es?			CO2
14.	Define	baud rate?				CO3
15.	Expand	I FHSS and DSSS?				CO3
16.	Define	an IP Address?				CO4
17.	Define	Digital signature and it	s use?			CO5

# **SECTION** – C ( $3 \times 6 = 18$ )

# ANSWER ANY THREE OF THE FOLLOWING

18. Briefa note on the characteristics and types of twisted pair cables?	CO2
19. Distinguish between coaxial cables and fiber optic cables?	CO2
20. Discuss briefly on types of framing methods?	CO3
21. Write a note on types of IP addresses and its characteristics?	CO4
22. Brief a note on Email and its characteristics?	CO5

# **SECTION – D** (1 x 12 = 12)

# ANSWER ANY ONE OF THE FOLLOWING

23. Enumerate on types of transmission media, their characteristics and types in each category?	CO2
24. Explain in detail Datalink layer issues and its services?	CO3

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	Course Code:	Drogramme:	BSC	CIA. II Test				
	10CT52	Fiogramme.	D.SC	CIA. II Test				
	<b>Date:</b> 05.11.2020	Course:	COMPUTER SCIENCE	Semester: V				
AAND HEARI HEARD	Time: 2Hrs	Year:	III	Maximum: 50 Marks				
	<b>Course Title:</b>		JAVA PROGRAM	IMING				
SECTION-A								
Answer all que	stions		( <b>10X1=10</b> )					
1) Java Packages are therefore classified into two types what are these CO3								
a) Java API b) User defined Packages c) a & b are both d) None of these above								
2) 1s th	e peer class of string	a) ann an d) Na	no of these shores	03				
a) String Bl	IIIer D) Builer	c) append d) No	ne of these above	CO3				
$3) \IIIa$	b) destructor	c) subclass	d) none of these above	003				
4) Inheritance	may take how many diff	erent form	u) none of these above	C03				
a) 5 b) 3 c) 4 d) 2								
5)	have the same name as		CO3					
a) Constru	ctors b) Dest	ructors	c) Function d	) Members				
6) is at	the top of the exception	class hierarchy.	,	CO4				
a) try. b) throwable. c) exception class. d) catch.								
7) In java threa	ad to thread communicati	on is called		CO4				
a) passing.	b) sending. c) me	ssaging. d) ca	llling.					
8) is a	small unit of a process.			CO4				
a) method.	b) thread. c)	applet. d) strea	m.	CO5				
9) is an applet tag. CO5								
a) (applet). $10$ AWT stand	b) > applel <.	c) <applet>. d</applet>	) <applet tag="">.</applet>	C05				
a) abstract v	window toolkit	 b) abstract wind	ow toolbar	665				
c) access w	indow toolkit.	d) access windo	w toolbar.					
SECTION-B								
Answer any FI	VE questions		(5X2=1	0)				
11) Define If	read		CO4					
12) Write any	4 HIML Tag							
13) White above $14$ ) What is I	nheritance?	CO4 CO3						
15) What is an	Interface?		CO3					
16) What are	packages?	CO3						
17) Any two	difference between Class	CO3						
SECTION-C								
Answer any TH	IREE questions	( <b>3X6=1</b>	8)					
18) Write she	ort notes on Constructors	CO2						
19) Discuss a $20$ E 1	bout the Visibility Contr	CO2						
20) Explain a	bout the implementing li							
21) Explain a $22$ ) Difference	a between Multithreadin							
SECTION-D								
Answer any one (1X12=12)								
23) Briefly ex	xplain about the Life cycl	<b>CO4</b>						
24) Briefly ex	plain about the Life cycle	CO5						

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DEPARTMENT OF COMPUTER SCIENCE								
		<b>Course Code:</b> 10CT53	Programme:	B.SC	CIA: II Test			
		<b>Date:</b> 06.11.2020	Course:	COMPUTER SCIENCE	Semester: V			
CARD II	ARI	Time: 2Hrs	Year:	III	Maximum: 50 Marks			
Course Title:		SOFTWARE ENGINEERING						
SECTION-A								
Answe	Answer ALL Questions:(10X1=10)							
CO3 1. A encompasses all data used by business.								
	A) Data warehouse B) Data design							
	C) Data knowledge D) Data encapsulation							
CO3	2. The goal of is to find errors.							
	A) Testing B) Analysis C) Coding D) Implementation							
CO3	O3 3. Design phase is followed by							
A) Coding B) Debugging C) Testing D) Maintenance								
CO4	4,							
	contained in a program module.							
	A) Stress B) Validation C) Condition D) Loop							
CO4	5. Testing begins at level.							
	A) Interface B) Analysis C) Design D) Component							
CO4	6. Testing and debugging are activities.							
	A) Same B) Parallel C) Different D) Opposite							
ac =	- 0 0	1 • 1 1	•	. 1				
CO5	7. Software analysis and design are tasks.							
~~~	A) Design B) Analysis C) Constructive D) Destructive							
CO5	5 8 Modules are identified at integration testing.							
ac -	A) Basic B) Critical C) Lengthy D) Interface							
CO5	05 9 is an important element of validation process.							
	A) Co	ntiguration review	B) Te	sting				
	C) Spe	ecification	D) De	eticiency list				
CO5	10. Validation testing begins at the culmination of testing.							
	A) Da	ta flow testing	B) Co	ondition testing				
	C) Lo	op testing	D) Va	alidation testing				

SECTION-B

Answer any FIVE Questions : CO3 11. What is the use of SRS? CO3 12. What is SSA?

CO4 13. Define DFD.

CO4 14. Define Module.

CO4 15. Write the types of Coupling?

CO5 16. What is Verification?

CO5 17. Define Debugging.

(5X2=10)

SECTION-C

Answer any THREE Questions:

- CO3 18. Explain about the Software Requirements Specification.
- CO3 19. Write a Short Notes on Language & Processors Requirements Specification.
- CO4 20. Discuss about the Coupling and Cohesion.
- CO4 21. Discuss about the fundamental Design Concepts in Detail.
- CO5 22. Explain in detail about Source Code Metrics.

SECTION-D

Answer any ONE Questions:

(1X12=12)

- CO4 23. Explain the concept of Design Notation for Software Design.
- CO5 24. Explain about the following,
 - (i) Unit Testing & Debugging
 - (ii) System Testing