DEPARTMENT OF COMPUTER SCIENCE					
Course Code: 10NE11	Due state as as	D A % D C -	CIA: I Test		
Date: 10.10.2019	Programme:	B.A., & B.Sc.,	Semester: I		
Time: 2Hrs	Year:	I	Maximum: 50 Marks		
Course Title: INTRODUCTION TO INFORMATION TECHNOLOGY					

SECTION-A

	SECTION-A			
ANSWER ALL QUESTIONS			1*10=10	
1) WWW means			CO1	
A. World Wide Wan B. World Wi	de Web. C. World	d Wan Web	D. World van	Web.
2) Website is a collection of.			CO1	
A. audio files. B. video file	C. image file.	D. html file.		
3) 82. WAN stands for			CO2	
A. wire and network	B. wire accessible			
C. widely accessible network	D. wide area netwo	ork.		
4) DOM is an acronym for			CO2	
A. document object model.	B. document object			
C. digital object model.	D. digital object m	etrics.		
5) WWW uses the following protocol?			CO3	
A. http. B. ftp.	C. www	D. SMTP.		
6) WAN stands for			CO3	
A. wire and network	B. wire accessible			
C. widely accessible network	D. wide area netwo	ork.		
7) The URL means			CO4	
A. use resource locator. B. un	defined resource loca	ator		
C. uniform resource locator. D. use	er defined locator.			
8) The web page means			CO4	
A. plain page. B. hyperlink	C. designed	d page	D. pictures	
9) WLAN stands for.			CO5	
A. Wrap Area Network. B. Wi	ide Area Network			
C. Wide Array Net. D. W.	ireless Local Area N	etwork		
10. Website is a collection of.			CO5	
A. audio files. B. video file	C. image fi	le. D. htr	nl file.	
	SECTION-B			
Answer any FIVE questions			(5X2=	=10)
11. Expand HDD and USB.			CO1	
12. Type of memory in computer.			CO1	
13. List out the any two web browsers?			CO2	
14. What is peripherals?			CO3	
15. What is Computer?			CO4	
16. Define hardware and software.			CO4	
17. Expand TCP and IP.			CO5	
	SECTION-C			
Answer any THREE questions				(3X6=18)
18) Briefly discuss about the input device a	and output device			CO1
19) Explain about the computer with types				CO2
20) Briefly explain about computer network				CO3
21) Explain about the memory with types.	* *			CO4
22) Discuss briefly about storage media in	a computer system?			CO5
	SECTION-D			
Answer any one	SECTION-D	(1X12	2=12)	
23) Explain the different types of operating	system?	(1212	<i>-</i>	CO1
24) Explain the usage of IT in Different fie	•			CO3
2., Explain the usage of 11 in Different file	******			203

DEPARTMENT OF COMPUTER SCIENCE						
Course Code: 10SB31	Programme:	Programme: B.Sc., CIA: III Test				
Date: 08.10.2019	Major:	COMP.SCIENCE	Semester: III			
Time: 1Hr	Year:	II	Maximum: 25 Marks			
Course Title:	itle: OPERATING SYSTEM					

SECTION-A

Answer ALL questions:					(5X1=5)
1. UCB expand for					CO4
a) Unit Control Block	b) Unix cell	Block c)	Uniform	Control Block	d) None
2. Arm position is called	d as a				CO4
a) Cylinder b) Disk	c) Tape	d) Record			
3. Devices, channels and	l control units are t	ypically call	ed the		CO4
A)Controller B)Traffic	c controller C)Pro	ocess contro	ller D)I	O Traffic control	ler
4. The system	m is concerned with	n mapping th	ne structu	re	CO5
a) Symbolic fine b) Physical file	c) Basic f	ile d) L	ogical file	
5. Information manager	nent sometimes ref	erred to the			CO5
a) OS b) Datab	ase c) File syster	m d)	Contemp	orary System	
	_	SECT	ON-B		
Answer any TWO quest	ions				(2X2=4)
6. What is mean by stor	age device?				CO4
7. Define I/O Traffic co	ontroller?				CO4
8. Define a file system?					CO5
9. What is a sequence sing	gle key record?				CO5
		SECTI	ON-C		
Answer any ONE questi	on				(1X6=6)
10. Explain the device r	nanagement systen	ı.			CO4
11. Write a short notes a	an simple file syste	m.			CO5
		SECT	ON D		
Answer any ONE questi	on	SECTI	UN-D		(1X10=10)
-					
12. Discuss about the ch		units.			CO4
13. Explain about the lo	gical file system.				CO5
		ar ar ar a	e ar ar s	OB	

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DEPARTMENT OF COMPUTER SCIENCE					
Course Code: 10SB51	Programme:	B.Sc.,	CIA: III Test		
Date: 08.10.2019	Major:	COMP.SCIENCE	Semester: V		
Time: 1Hr	Year:	III	Maximum: 50 Marks		
Course Title:	COMPETITIVE EXAM FOR IT				

Answer the all questions

1. Arrange the following words in a meaningful order: 2. Composing 1. Reading 4. Printing 3. Writing a) 1, 3, 4, 2 b) 2, 3, 4, 1 c) 3, 1, 2, 4 d) 3, 2, 4, 1 2. Arrange the following words in a logical sequence. 2. Selection 1. Application 3. Exam 4. Interview 5. Advertisement a) 1, 2, 3, 5, 4 b) 5, 1, 3, 4, 2 c) 5, 3, 1, 4, 2 d) 4, 5, 1, 2, 3 3. Arrange the following words in a meaningful order. 1. Family 2. Community 3. Member 4. Locality 5. Country a) 3, 1, 2, 4, 5 b) 3, 1, 2, 5, 4 c) 3, 1, 4, 2, 5 d) 3, 1, 4, 5, 2 4. Arrange the following words in a meaningful order. 1. Andhra Pradesh 2. Universe 3. Tirupati 4. World 5. India a) 3, 1, 4, 5, 2 b) 1, 3, 5, 4, 2 c) 3, 1, 5, 4, 2 d) 3, 1, 2, 4, 5 5. Arrange the following words in a logical sequence. 1. Gold 2. Iron 3. Sand 4. Platinum 5. Diamond a) 2, 4, 3, 5, 1 b) 3, 2, 1, 5, 4 c) 4, 5, 1, 3, 2 d) 5, 4, 3, 2, 1 6. Arrange the following words in a logical sequence. 3. Billion 1. Trillion 2. Thousand 4. Hundred 5. Million a) 1, 2, 4, 3, 5 b) 1, 5, 3, 2, 4 d) 4, 2, 5, 3, 1 c) 4, 2, 3, 5, 1 7.A man walks 1 km to East and then he turns to South and walks 5 km. Again he turns to East and walks 2 km. After this he turns to North and walks 9 km. Now, how far is he from his starting point? b) 4 km c) 5 km a) 3 km d) 7 km 8. If South-East becomes north and south becomes North-East and all the rest directions are changed in the same manner, the will be the direction for West? a) North-East b) North-West c) South-East d) South-West 9. Mohan was facing east. He walked 4 km forward

and then after turning to his right walked 3 km. Again

c) North

he turned to his right and walked 4 km. After this he

turned back. Which direction was he facing at that

b) West

time?

a) East

10. A direction pole was situated on the crossing. Due to an accident the pole turned in such a manner that the pointer which was showing East, started showing South. One traveler went to wrong direction thinking to be west. In what direction actually he was traveling? a) East b) South-West c) North d) South 11. One morning Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing? a) East b) West d) South c) North 12. You should save your computer from? b) Time bombs a) Viruses c) Worms d) All of the above 13. Which is the layer of a computer system between the hardware and the user program a) Operating environment b) Operating system c) System environment d) None 14. The operating system is the most common type of Software a) Communication b) Application c) System d) Word processing software 15. What is the default file extension created by notepad? a) .doc b) .html c) .txt d) .tiff 16. Which of the following is not the user file extension? a) .ppt b) .xls d).doc c) .sys 17. What is right way to initialize array? a) int num $[6] = \{ 2, 4, 12, 5, 45, 5 \};$ b) int $n\{\} = \{2, 4, 12, 5, 45, 5\};$ c) int $n\{6\} = \{2, 4, 12\};$ d) int $n(6) = \{ 2, 4, 12, 5, 45, 5 \};$ 18. Who is father of C Language? a) Bjarne Stroustrup b)James A. Gosling c)Dennis Ritchie d)Dr. E.F. Codd 19. In Java arrays are a) objects b)object references c)primitive data type d)None of the above 20. Which one of the following is a valid statement? a) char[] c = new char();

b) char[] c = new char[5];

c) char[]c = new char(4);

d) char[]c = new char[];

d) South

```
21. The output of the following fraction of code is:
                                                         37.The L.C.M of two number is 26,26,26=?
public class Test{
                                                         a) 64
                                                                        b) 26
                                                                                        c) 32
                                                                                                       d)30
public static void main(String args[]){
                                                         38. The Multiplication of two number is 117*113=?
String s1 = new String("Hello");
                                                         a) 12321
                                                                        b) 12231
                                                                                       c) 13221
                                                         39. The L.C.M of two variable is a^{m+1}, a^{m+2}, a^{m+4}=?
String s2 = new String("Hellow");
                                                         a) a^{m+4}
                                                                                b) a<sup>m+2</sup>
System.out.println(s1 = s2);}}
                                                                                d) a^{m+2} a^{m+4}
                                                         c) a<sup>m+1</sup>
a) Hello
                              b) Hellow
c)Compilation error
                              d)Throws an exception
                                                         40. In a class there are 20 boys & 15 girls. The ratio
22. Select from among the following character escape
                                                         of boys to girls are
code which is not available in Java.
                                                         a)4:3
                                                                        b)4:5
                                                                                       c)3:9
                                                                                                       d)18:49
                                                         41. Exception generated in try block is caught in
a)\t
               b)\a
                                             d)\\v
                              c)\\b
23. What will be the output?
                                                                  block.
if(1 + 1 + 1 + 1 + 1 == 5){
                                                                        b)throw
                                                         a)catch
                                                                                       c)throws
                                                                                                       d)finally
System.out.print("TRUE");}
                                                         42. Java is a
                                                                                   language.
                                                         a)weakly typed
                                                                                        b)strongly typed
System.out.print("FLASE");}
                                                         c)moderate typed
                                                                                        d)None of these
a)TRUE
                                                         43. How many primitive data types are there in Java?
                              b)FALSE
c)Compiler Error
                                                                        b)7
                                                                                       c)8
                              d)None of these
                                                         a)6
                                                                                                       d)9
24. System class is defined in
                                                         44. Size of int in Java is
a) java.util package
                              b)java.lang package
                                                         a)16 bit
                                                                                b)32 bit
                                                                                                       c)64 bit
c)java.io package
                              d)java.awt package
                                                         d)Depends on execution environment
25. Interest: Money lender:: Salary:?
                                                         45. What would be the output of the following fraction
a) Employees
                              b)Zamindar
                                                         of code?
c)Workers
                              d)Prisoners
                                                         int Integer = 34;
26. 6:36::9:?
                                                         char String = 'S';
                                             d)56
                                                         System.out.print( Integer );
               b)98
                              c)42
                                                         System.out.print ( String );
27. 6:72::8:?
                                                         a)Throws exception.
               b)96
                              c)74
                                             d)92
                                                                                               b)34
a)94
28. Mother: Daughter:: Father:?
                                                                                               d)34 S
               b)Brother
                                                         46. Pointing to a photograph of a boy Suresh said,
                              c)Boy
                                             d)Sister
                                                         "He is the son of the only son of my mother."
29.Moon: Satellite:: Earth:?
a)Sun
                      b)Solar System
                                                         How is Suresh related to that boy?
                      d)Asteroid
                                                         a)Brother
                                                                        b)Uncle
                                                                                                       d)Father
c)Planet
                                                                                       c)Cousin
30. Four words are given, out of which three are same
                                                         47. If A is the brother of B; B is the sister of C; and C
in a certain way while the rest one is different. Find
                                                         is the father of D, how D is related to A?
out the different one.
                                                         a)Brother
                                                                                b)Sister
                                                         c)Nephew
                                                                                d)Cannot be determined
a)Teacher
               b)Principal
                              c)student
                                           d)Lecturer
31. Four words are given, out of which three are same
                                                         48. Introducing a boy, a girl said, "He is the son of
                                                         the daughter of the father of my uncle." How is the
in a certain way while the rest one is different. Find
                                                         boy related to the girl?
out the different one.
a)Square
               b)Triangle
                                          d)Rectangle
                                                         a)Brother
                                                                                        b)Nephew
                              c)Area
32.4, 7, 12, 19, 28, ?
                                                                                        d)Son in law
                                                         c)Uncle
                                                         49. Pointing to a Photograph Latha says, "He is the
a)49
               b)36
                              c)30
                                             d)39
                                                         son of the only son of my grandfather."
33. 28% of 450+45%280
                              c)305
                                                         How is the man in the Photograph related to Latha?
a)256
               b)252
                                             d)352
34.The L.C.M of two number is 4,16,32=?
                                                         a)Brother
                                                                        b)Uncle
                                                                                        c)Cousin
                                                                                                       d)Data is
               B) 60
                              C) 32
                                             D)30
                                                         inadequate
A) 64
35. The L.C.M of two variable is x^3y^2, xyz=?
                                                         50. Pointing a Photograph X said to his friend Y, "She
              b) x^3y^2zc
                              c) x^3y^2
                                             d) x^3yz
                                                         is the only daughter of the father of my mother." How
a) xy^2z
                                                         X is related to the person of Photograph?
36. The hexa number 9AF convert to binary number is
a)100110101111
                              b) 100111101101
                                                         a) Daughter
                                                                                        b)Son
                              d) 100100111100
                                                         c)Nephew
                                                                                        d)Cannot be decided
c) 100010001011
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DEPARTMENT OF COMPUTER SCIENCE						
Course Code: 10AT11	urse Code: 10AT11 Programme: B.Sc., CIA: III Test					
Date: 14.10.2019	Major:	COMP.SCIENCE	Semester: I			
Time: 2Hrs	Year:	I	Maximum: 50 Marks			
Course Title:	DISCRETE MATHEMATICS					

Course Title:	DI	ISCRETE	E MATHEMATICS	
	SECTIO	N-A		
Answer all questions				(10X1=10)
1 definitions can be used to	solve counting r	oroblems	CO4	
A. Recursion B. Recursive	C. Recurrence		D. Function	
2 relations occur constantly in pra	actical application	ns, analysis	of algorithms, error cor	recting code. CO4
A. Recursion B. Recursive	C. Recurrence		D. Function	
3is the process of inferring the	truth form a gene	eral stateme	nt for particular cases.	CO4
A. Mathematical Induction B. Recursiv	e C. R	Recurrence	D. Function	
4. The numbers in the sequence 0, 1, 2, 3, 5,	8, 13, 21, in which	ch each new	term is the sum of the	previous two terms
are called	CO	4		
A. Factorial B. Fibonacci C.	Recurrence	D. Fund		
5. Find the generating function for the seque	nce 1, 1, 1,1,1,1 i	is	CO4	
A. $z^{0} - 1/z - 1$ B. $z^{0} - 1/z - 1$	C. $z^2 - 1/z - 1$			
6. Find the generating function for the infinit		9, 27Wh	ere 3 is a fixed constant	t CO4
A. 1/1-3z B.1/1-2z C. 1		z-1		
7. Each loop counting has edges.			CO5	
A. 1 B. 2 C. 3	D. 4			
8. An edge with identical ends is called			CO5	
A. complete graph B. bipartite graph		D. link		
9. An edge with same ends is called			CO5	
A. complete graph B. bipartite graph		D. link		
10. Any vertex having degree one is called _			CO5	
A. Simple vertex B. pendent vertex	C. regular ve	ertex	D. complete vertex	
	SECTIO	N-B		
Answer any FIVE questions				(5X2=10)
11) Define Function & relation			CO1	
12) Define Matrix			CO2	
13) Define Complete Graph			CO5	
14) Write the types of connectedness in dire	ected graph		CO5	
15) Write about Fibonacci number			CO4	
16) Define Mathematical Induction			CO4	
17) Write about truth tables with example			CO3	
	CECTIC	M C		
Answer any THREE questions	SECTIO	IN-C		(3X6=18)
· -				
18) Show that the matrix A $\begin{bmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{bmatrix}$	satisfies the equ	uation A^3	$-6A^2 + 9A - 4I = 0$ and h	ence find A ⁻¹
-1 2 -1			CO2	
1 -1 2				
19) Obtain PDNF and PCNF for the followi	ng Q ^ (PV7Q).		CO3	
20) Find the recurrence relation, satisfying y	$V^{n} = A(3)^{n} + B(-2)^{n}$		CO4	
21) Find the generating function for the infin	nite sequence 1, o	α , α^2 , α^3	Where α is a fixed co	onstant CO4
22) Let $f: Z \rightarrow Z$ be a function defined by $f(x)$	(x) = 2x + 3, Let g: 7	$Z \rightarrow Z$ be a	function defined by g(x)=3x+2.
Find: i) fog ii) gof.			CO1	

SECTION-D

Answer any one (1X12=12)

- 23) Explain about Infix, prefix and postfix notation & Tree Traversals with example CO5
- 24) Using generating function, solve the difference equation Y_{n+2} -6 Y_{n+1} + 8 Y_n =0, Y_0 =1, Y_1 =4. **CO4**

DEPARTMENT OF COMPUTER SCIENCE							
Course Code: 10AT31	Programme:	rogramme: B.Sc., CIA: III Test					
Date: 14.10.2019	Major:	COMP.SCIENCE	Semester: III				
Time: 2Hrs	Year:	Year: II Maximum: 50 Marks					
Course Title:	: OPERATIONS RESEARCH						

Course fille: OPERATIONS	RESEARCH
SECTION-A	
Answer all questions	(10X1=10)
1. The objective function for a L.P model is $3X_1+2X_2$, if $X_1=20$ and $X_2=3$	=30, what is the value of the objective
function? CO4	
A) 0 B) 50 C) 60 D) 120	
2. The basic solution is said to be if no one of basic variable	ole is zero CO4
A) Non-degenerate B) feasible C) degenerate D) non-feasible	
3. In simplex optimal table zj-cj=0 then the solution is	CO4
a) Optimal b) alternative solution c) unbounded solutiond) none	
4. To formulate simplex problem we introduce slack and surplus variable	les for CO4
a) Only equality b) only inequality c) both d) none	
5. Linear programming involves more than two variables can be solved	by CO4
a) Simplex method b) Big-M method c) both d) graphical	
6. A variable which does not appear in the basis variable (B) column of	_
A. never equal to zero B. always equal to zero C. called ba	sic variable
D. None of these CO5	
7. To formulate a problem for solution by the simplex method, we must	
A. only equality constraints B. only > constraints C. both A & B	D. None of these
8. If all xij values in the incoming variable column of the simplex table	
A. solution is unbounded B. there are multiple solution C. there exists	st no solution
D. None of these CO5	
9. If an artificial variable is present in the basic variable column of optim	nal simplex table,
Then the solution is CO5	
A. unbounded B. infeasible C. optimal D. None of	these
10. The maximization or minimization of a quantity is the CO5	
a. goal of management science. b. decision for decision analysis.	
c. constraint of operations research. d. objective of linear programming	· ·
SECTION-B	
Answer any FIVE questions	(5X2=10)
11. Define LPP	CO5
12. Define feasible region	CO4
13. Define unbounded solution	CO4
14. Define infeasible solution	CO4
15. Write Simplex Table	CO5
16. How many variables are need to find graphical solution?	CO4
17. Define slack and surplus variables	CO5
17. Deline olden dila barpido variables	

SECTION-C

		S	ECI	ION	1-C			
Answer any THREE questions							(3X6=18)	
18. Express the following LPP star	ndard form	and r	natri	x for	m			CO5
Maximum $Z = 25x_1 + 20x_2$								
Subject to								
$16x_1 + 12x_2 \le 100$								
$8x_1 + 16x_2 \le 800$								
And $x_1, x_2 \ge 0$								
1 ma A ₁ , A ₂ <u>_</u> 0								
19. Write graphical method proceed	dure							CO4
20. Express the following LPP can	onical form	and	ctan	dard	form			CO5
-	onicai ioni	anu	Stano	Jaiu	101111	l		COS
Maximize $Z=4x_1+2x_2+6x_3$								
Subject to								
$2x_1+3x_2+2x_3>=6$								
$3x_1 + 4x_2 = 8$								
$6x_1-4x_2+x_3 \le 10$ and $x_1, x_2 \ge 0$								
21. Use graphical methods to solve	e the I DD							CO4
Maximum $Z=5x_1+8x_2$	o the Li i							CO4
Subject to								
$15x_1 + 10 \ x_2 \le 180$								
$10x_1 + 20x_2 \le 200$								
$15x_1 + 20x_2 \le 210$								
And $x_1, x_2 \ge 0$								
22. Explain simplex algorithm								CO5
		SE	CTI	ON-l	D			
Answer any ONE							(1X12=12)	
23. Use Simplex method to solve f	following L	PP					(=====)	CO5
Max $z = 4x_1 + 10x_2$	onowing D							000
Subject to								
$2x_1 + x_2 \le 50$								
$2x_1 + 5x_2 \le 100$ $2x_1 + 2x_2 \le 00 \text{ and } x_1 + x_2 > 0$								
$2x_1+3x_2 \le 90 \text{ and } x_1, x_2 \ge 0$								
24. Solve the following transportat	tion							CO3
24. Solve the following transportation	1011	dog	tinat	ion				CO3
	COLLEGG		tinat b		A.	gunnle.		
	source	a 21	b	C 25	d	supply		
	1	21			13	11		
	2	17		14	23	13		
	3	32		18		19		
	Demand	6	10	12	15			

DEPARTMENT OF COMPUTER SCIENCE					
Course Code: 10CT11	Programme:	B.Sc.,	CIA: III Test		
Date: 09.10.2019	Major:	COMP.SCIENCE	Semester: I		
Time: 2Hrs	Year:	I	Maximum: 50 Marks		
Course Title:	PROGRAMMING IN C				

SECTION-A		
Answer all questions (10X1=	:10)	
1. An external variable is one	CO4	
A. which is globally accessible by all functions. B. which is declared outside.	de the body of a	any function
C. which resides in the memory till the end of the program. D. which is locally		
2. If a storage class is not mentioned in the declaration then default storage class is		
A. automatic. B. static. C. external. D. register.	CO4	
3. Identify the most appropriate sentence to describe the unions	CO5	
A. unions contain members of different data types which share the same storage a	rea in memory.	
B. unions are like structures. C. unions are less frequently used in the programme of the p	gram.	
D. unions are used for set operations		
4. The member variable of structure is accessed by using	CO4	
A. dot (.) operator. B. arrow (->) operator. C. asterisk * operator.	D. ampersand	& operator.
5. The structure combines variables of	CO4	
A. similar data types. B. dissimilar data types. C. unsigned data types.	D. signed data	types.
6. The number of digits present after decimal in float is	CO5	
A. 4. B. 1. C. 16. D. 6.		
7. The EOF is equivalent to	CO5	
A1. B. 0. C. 1. D. {}.		
8. The goto statement transfers the control	CO5	
A. any place in the program. B. exit C. counter loop D. file.		
9. Break statement encountered	CO5	
A. immediate exit. B. continue the process. C. counter loop D. all.		
10. All standard C library <math.h> functions return what data type?</math.h>	CO5	
A. decimal. B. float. C. double. D. int.		
SECTION-B		
		(10)
Answer any FIVE questions	002	(5X2=10)
11. Define storage class	CO3	
12. How to access structure's data members	CO4	
13. What are the types of function?	CO4	
14. Define Pointers	CO5	
15. Define File	CO5	
16. Define Recursion	CO4	
17. What are the rules of creating structure?	CO4	
SECTION-C		
Answer any THREE questions		(3X6=18)
18. Explain function with arguments but no return value with example		CO3
19. Define union Explain how to create union and access union members with example		CO3
20. Explain pointers, how to declare pointer variable and access the variable of address		CO5
21. Explain File Functions any 6		CO5
22. Differentiate call by value and call by reference with example SECTION-D		CO4
Answer any ONE		(1X12=12)
23. Write a factorial program using recursive function		CO5
24. Differentiate array, structure and union with example		CO4

DEPARTMENT OF COMPUTER SCIENCE				
Course Code: 10CT12 Programme: B.Sc., CIA: III Test				
Date: 12.10.2019	Major:	COMP.SCIENCE	Semester: I	
Time: 2Hrs	Year:	I	Maximum: 50 Marks	
Course Title: DIGITAL PRICNCIPLES AND COMPUTER ORGANIZATION				

SECTION-A

Answer all questions			(10	X1=10)
1 operand is the contents of a CP	-			CO4
a)Address mode b)Register m			ode d)Immedia	
2. The control signals sent to the memory a				CO4
a)Memory read request	b)Memor	ry write requ	est	
c)Memory control request	d)Both a	&b		
3. PLA consists of an array of gates f				CO4
a)OR,AND b)NOR,NAND	c)AND,C)R	d)NAND,NOR	
. DMA expand for				CO4
a)Direct Memory Address				
c)Direct Message Access				
The DMA devices that is allowed to initi			· · · · · · · · · · · · · · · · · · ·	_CO4
a)Bus driver b) Bus arbite		Bus grant	d) Bus master	
. The 8085 architecture device has				CO5
a)40 b)41 c)42)43		
. The accumulator is also identified as				CO5
a)Register AC b)Register				
Increment the contents of a register equiv				CO5
a)INR I b)INR R c)INC				
. Which of the following is not a BRANC				CO5
a)CMP 16 BIT ADDRESS				
c)JC 16 BIT ADDRESS	d)CALL	16 BIT ADD	PRESS	
0. LED stands for				CO5
a)Lighting Emitted Display	b)Light E			
c)Light Emitted Diodes		d Emitted Di	splay	
	SECT	ION-B		
answer any FIVE questions			(5X)	(2=10)
1. Write a Indirect Addressing Mode.				CO4
2. Expands for the (i) MAR (ii)M	DR (i	ii) MFC		CO4
3. What is Micro Program Control?				CO4
4. What is Bus Master?				CO4
5. What is Microprocessor?				CO5
6. Define 8085 Programming Model.				CO5
7. Define Microprocessor Functions.				CO5
	SECT	ION-C		
Answer any THREE questions			(3)	(6=18)
8. Write a short notes on Addressing Mod	les.			CO4
9. Explain about the Hardwired Control w		etch.		CO4
0. Discuss about the Architecture of Micr				CO5
1. Explain the 8085 Pin Function.	_			CO5
2. Write short notes on 8085 Instruction S	Set.			CO5
	SECT	ION-D		
answer any ONE question.			(13	X12=12)
23. Explain about the DMA with neat diag	ram		(12)	CO4
24. Discuss about the 8085 Architecture.	ι α111.			CO4 CO5
A. Discuss about the obox Alchitecture.	302 302 302 3	Ce ace ace are		003
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DEPARTMENT OF COMPUTER SCIENCE			
Course Code: 10CT31 Programme: B.Sc., CIA: III Test			
Date: 09.10.2019	Major:	COMP.SCIENCE	Semester: III
Time: 2Hrs	Year:	II	Maximum: 50 Marks
Course Title: COMPUTER ORGANISATION WITH PARALLEL PROCESSING			

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SECTION-A	(10X1=10)
Answer all questions	~ 4
1. The of the computer consists of physical entity of the device. CO)1
A. software. B. middleware. C. hardware. D. firmware.	
2 directive is used to specify and assign the memory required for the block of code.CC)1
A. Allocate B. Assign C. Set D. Reserve	
3. A circuit is an interconnection of flip-flops and gates.)2
A. combinational. B. arithmetic. C. shift. D. sequential.	
4. The assembler stores all the names and their corresponding values in	CO2
A. Special purpose Register B. Symbol Table	
C. Value map Set D. None of the mentioned	
5 is a binary code of a group of elements consisting of 10 decimal digits, the 2	26 letters of the
alphabet and a certain number of special symbols such as \$.	CO3
A. Alphanumeric code. B. Decimal code. C. Error detection code. D.	Reflected code.
6. RAM is its contents are destroyed when power is turned off.	CO3
A. non volatile. B. permanent. C. volatile. D. initial.	
7. Each stage in pipelining should be completed within cycle.	CO4
A. 1 B. 2 C. 3 D. 4	
8. In super-scalar processors, mode of execution is used.	CO4
a) In-order b) Post order c) Out of order d) None of the mentioned	1
9. Out of the following which is not a CISC machine.	CO5
a) IBM 370/168 b) VAX 11/780 c) Intel 80486 d) Motorola A567	
method is used in centralized systems to perform out of order execution.	CO5
a) Scorecard b) Score boarding c) Optimizing d) Redundancy	
a) stored and an analysis and	
SECTION-B	
Answer any FIVE questions	(5X2=10)
11. What is parallel processing?	CO4
12. Define pipeline computers?	CO4
13. Writeabout the multi-processor system?	CO4
14. Write the any four parallel processing application?	CO4
15. Explain SIMD.	CO5
16. Definemasking.	CO5
17. What is network?	CO5
SECTION-C	003
Answer any THREE questions	(3X6=18)
18. Discuss about the Parallel computer structures?	CO4
19. Explain the parallel processing applications?	CO4
20. Discuss about the SIMD computer organization?	CO5
21. Briefly explain mesh connected iliac network.	CO5
22. Explain the parallel sorting on array processors?	CO5
22. Explain the parallel sorting on array processors?	COS
SECTION-D	
	(1V10_10)
Answer any ONE 23. Discuss the parallel processing machanism?	(1X12=12)
23. Discuss the parallel processing mechanism?	CO4 CO5
24.Explain the SIMD interconnection networks (i) Cub interconnection networks	COS
(i) Cub interconnection network	
(ii)Shuffle exchange and omega network	
ALE	

DEPARTMENT OF COMPUTER SCIENCE					
Course Code: 10CT32 Programme: B.Sc., CIA: III Test					
Date: 12.10.2019	Major:	COMP.SCIENCE	Semester: III		
Time: 2Hrs	Year:	ear: II Maximum: 50 Marks			
Course Title:	COMPUTER GRAPHICS				

SECTION - A $(10 \times 1 = 10)$ ANSWER THE FOLLOWING: CO₃ 1. A translation is applied to an object by a) Repositioning object along a straight line path b) Repositioning object along a circular path c) both a and b d) none of these 2. Translation of a two dimensional point can be done by adding a) Translation distancesb) translation difference c) translation points d) repositioning CO₃ 3. The translation distances (dx, dy) is called as _ a) Translation vector b) shift vectorc) both a and b d) Repositioning of vector CO₃ 4. In 2D-translation, a point (x,y) can move to the new position (x^1,y^1) by using the equation a) $x^{1} = x + dx$ and $y^{1} = y + dx$ b) $x^{1} = x + dx$ and $y^{1} = y + dy$ $c)X^1 = x + dy$ and $Y^1 = y + dx$ d) $X^{1} = x + dx$ and $Y^{1} = y + dy$ CO₃ 5. is a rigid body transformation that moves objects without deformation a) Rotation b) Scaling c) Translation d) all the above **CO3** 6. A straight line segment is translated by applying the transformation equation _____ a) $P^1 = P + T$ c) $P^1 = P + P$ b) Dx and Dy d) both a and c CO₃ 7. A world coordinate are is selected for display is called a) Viewport b) transformation c) Rasterization d) window point **CO4** 8. An area on a display device to which a window is a mapped is called a _____ a) Window b) graphics c) Animation d) View port CO₄ 9. Mapping selected ports of a scene in normalized coordinates to different video monitors is called a) Rotation b) Reflection c) workstation transformation d) Shear transformation **CO4** 10. A procedure that identifies those portions of a picture that are either inside or outside of specified region of space is called a) Composite transformation **CO4** b) Clipping c) Area fill d) Flood fill algorithm SECTION - B $(5 \times 2 = 10)$ ANSWER ANY FIVE OF THE FOLLOWING: 11. Give an example for rigid body transformation? **CO3** 12. What is meant by translation distance? CO₃ 13. Define differential scaling? CO₃ 14. Define Reflection? CO₃ 15. Distinguish between fixed point scaling and differential scaling? **CO4** 16. Define shear? **CO4** 17. Give the uses of clipping? **CO4** SECTION - C $(3 \times 6 = 18)$ ANSWER ANY THREE OF THE FOLLOWING: 18. Brief a note on conic sections? CO₃ 19. Summarize a note Raster method transformations? CO₃ 20. Critically analyze Scaling and its types? CO₃ 21. Brief a note on 2D viewing pipeline? CO₄ 22. Brief a note on Window-To-Viewport coordinate Transformation? **CO4** SECTION - D $(1 \times 12 = 12)$ ANSWER ANY ONE OF THE FOLLOWING: 23. Compare and criticize the types of 2D transformations? CO₃ 24. Explain the working Clipping and its typeswith illustrations **CO4**

DEPARTMENT OF COMPUTER SCIENCE					
Course Code: 10CT51 Programme: B.Sc., CIA: III Test					
Date: 10.10.2019	Major:	COMP.SCIENCE	Semester: V		
Time: 2Hrs	Year:	ear: III Maximum: 50 Marks			
Course Title: COMPUTER NETWORKS					

SECTION – A $(10 \times 1 = 10)$

ANSW	VER ALI	THE	OUES	TIONS:
			OULS.	LIVIN.

1. Which layer of the OSI reference model resolves the problems of damaged or lost or duplicate frames?
a) Network b) Physical c) Datalink d) Application
2. In signaling scheme, the bit error rate can be reduced by
a) Increasing the bandwidth b) Decreasing the bandwidth c) increasing data rate d) increasing baudrate
3. In a real life network, datalink protocols are implemented as
a) Unidirectional b) bi directional c) omni directional d) directional
4. Function of datalink layer control includes
a) Framing b) Flow control c) Error Control d) All of these
5. Whenever a sender's datalink layer encounters five consecutive 1s in the data, it automatically stuffs
a) 0 bit b) 2 bits c) 4 bytes d) 1 byte
6. An n-bit unit containing data and check bits is referred as
a) Frame b) Packet c) Codeword d) Parity bit
7. The number of bit position in which two codewords differ is called the
a) Parity bit b) Frame headerc) Packet Id d) Hamming distance
8. Which protocolthe sender sends one frame and waits for an acknowledgement before sending is called
_ a) Unrestricted simplex protocol b) simplex stop-and-wait protocol c) Sliding protocold) Sliding window protocol
9. The technique of temporarily delaying outgoing acknowledgements and hooking onto the next outgoing frame is called a) Sliding window b) Piggybacking c) Framing d) Switching 10 is a process of forwarding the packets from the source to the destination using a routing table
a) Switching b) Framing c) Routing d) Fragmentation

$SECTION - B \qquad (5 \times 2 = 10)$

ANSWER ANY FIVE OF THE FOLLOWING:

- 11. Define framing?
- 12. List the types of services provided by the data link layer?
- 13. What is meant by Byte Stuffing?
- 14. Define Piggybacking?
- 15. What is meant by Cyclic Redundancy Check?
- 16. Define Hamming Distance?
- 17. List the type of services provided by the Network Layer?

$SECTION - C \qquad (3 \times 6 = 18)$

ANSWER ANY THREE OF THE FOLLOWING

- 18. Brief a note on the design issues in Data link layer?
- 19. Write a summary Simplex Stop-and Wait Protocol?
- 20. Identify the types of Error Detection Codes?
- 21. Compare the characteristics of Data link layer and Network layer?
- 22. Explain the characteristics IP Addresses and its types?

SECTION – D $(1 \times 12 = 12)$

ANSWER ANY ONE OF THE FOLLOWING

- 23. Enumerate on the characteristics elementary datalink protocols?
- 24. Analyze the working of Sliding window protocol?

DEPARTMENT OF COMPUTER SCIENCE				
Course Code: 10CT52 Programme: B.Sc., CIA: III Test				
Date: 11.10.2019	Major:	COMP.SCIENCE	Semester: V	
Time: 2Hrs	Year:	III	Maximum: 50 Marks	
Course Title:	JAVA PROGRAMMING			

Course ricie.	JAVA PROGRAMMIN	<u> </u>
	SECTION- A	
(Answer all the Questions)		(1*10=10)
1 is at the top of the exception class h	ierarchy.	
A. try. B. throwable. C. exc	ception class. D. catch.	
2. In java thread to thread communication is ca	ılled	
A. passing. B. sending. C. mes	ssaging. D. calling.	
3 is a small unit of a process.		
A. method. B. thread. C. a	ipplet. D. stream.	
4. What is the base class for all Exception?		
A. java.lang.Exception C. java.lang.RuntimeException	B. java.lang.Throwable	
C. java.lang.RuntimeException	D. java.lang.Error	
5. Which of these keywords is not a part of exc	ception handling?	
A. finally. B. catch. C. thro	<u> </u>	
6. Threads can be created by implementing	•	
A. new. B. creator. C. mai		
7. Which method will contain the body of the t		
A. run () B. start () C. st		
8is an applet tag.	-F () = 1 ()	
A. (applet). B. >applet<. C.	<applet>. D. <applet tag="">.</applet></applet>	
9 AWT stands for		
A. abstract window toolkit. C. access window toolkit.	B. abstract window toolbar.	
C. access window toolkit	D access window toolbar	
10. An is a special kind of Java pro		ed over the internet.
A. viewlet. B. applet.		
Ti. viewiet. B. appiet.	e. service. B. object.	
	SECTION- B	
(Answer all the Questions)		(5*2=10)
11. Write 4 important mechanisms in exception	n Handling.	(/
12. Define Compile time		
13. Define Single Thread		
14. Write about Local applet		
15. Write any 4 HTML Tag		
16. Write about Thread Priority		
17. Write about Start () and run () Command.		
17. Write about start () and run () Commund.	SECTION- C	
(Answer any THREE)		(3*6=18)
18. What are they common error in Compile t	ime and Run time	(5 0-10)
19. Write about the Exception Handling	ine and Run time	
20. Difference between Multithreading and M	ultitaskino?	
21. Briefly discuss on Thread Priority	untasking:	
22. Explain about the Applet and how it run?		
22. Explain about the Applet and now it full:		
	SECTION- D	
(Answer any ONE)		(1*12=12)
23. Briefly explain about the Life cycle of a th	nread.	(1 12-12)
24. Explain about the Life cycle of Applet.		
2. Explain about the Life cycle of Applet.		

DEPARTMENT OF COMPUTER SCIENCE					
Course Code: 10EP1A Programme: B.Sc., CIA: III Test					
Date: 12.10.2019	Major:	COMP.SCIENCE	Semester: V		
Time: 2Hrs	Year:	ear: III Maximum: 50 Marks			
Course Title: SOFTWARE ENGINEERING					

Course little:	SUF	IWARE ENGINEERING	
	SECTION – A	(1 X 1 = 10)	
Answer ALL Questions:		·	
1. Water fall model is sometim	es called as a		
a. Lifecycle.	b. V-process model.		
c. Ordered model.	d. Classic life cycle.		
2. A is a represe	ntation of almost any composite	information that must be	
understood by software.			
a. entity. b. data.	c. data object. cates how software will respond	d. attribute.	
3. The model indi	cates how software will respond	l to external events.	
	ario-based. c. data flow.		
	software divided into named an	-	
a. Pattern. b. Mod	ularity. c. Information l	niding. d. Entity	
5. Waterfall model is also calle	:d		
	b. customer model.		
	function is fully operational is		
	c. integration.	d. stress.	
7 testing is one			
	flow. c. loop.	d. stress.	
8. Testing and debugging are_			
a. same. b. paral	lel. c. different.	d. opposite.	
9 is an integrat	ion testing approach.		
a. Validation. b. Exha	ustive. c. Smoke.	d. Unit.	
10 modules are	identified at integration testing.		
a. Basic. b. Critic	cal. c. Lengthy.	d. Interface.	
	SECTION – B	(5*2=10)	
11. What is software Design?			
12. Define Abstraction?			
13. Write a types of coupling.	,		
14. Define software maintena	nce.		
15. Expand: DFD, HIPO			
16. What is testing?			
17. Define verification and va	ılidation.		
	CECTION	C	
	SECTION –	C	
Answer Any THREE Quest	ions:	(3*	*6=18)
18. Explain the structure o	f design notations.		
19. Discuss about the coup	_		
20. Explain the structure d	esign techniques.		
	configuration management?		
22. Explain unit testing and	Č Č		
	SECTION – D	(1 X 12	2 = 12)

Answer Any ONE Questions:

- 23. Explain fundamental design concepts in software engineering.
- 24. Discuss about the system testing.

