


DEPARTMENT OF COMPUTER SCIENCE

	Course Code: 10EP1A	Programme:	B.SC.	CIA: I Test
	Date: 05.10.2020	Course:	COMPUTER SCIENCE	Semester: V
	Time: 2Hrs	Year:	III	Maximum: 50 Marks
	Course Title:	CLOUD COMPUTING		

SECTION – A

(10 x 1 = 10)

ANSWER ALL THE QUESTIONS:

- Which of the following is Cloud Platform by Amazon? **CO1**
a) Azure b) AWS c) Cloudera d) All of the mentioned
- Which of the following can be considered PaaS offering? **CO1**
a) Google Maps b) Gmail c) Google Earth d) All of the mentioned
- _____ provides virtual machines, virtual storage, virtual infrastructure, and other hardware assets. **CO1**
a) IaaS b) SaaS c) PaaS d) All of the mentioned
- _____ enables batch processing, which greatly speeds up high-processing applications. **CO1**
a) Scalability b) Reliability c) Elasticity d) Utility
- Cloud computing is also a good option when the cost of infrastructure and management is _____. **CO1**
a) Low b) high c) moderate d) none of the mentioned
- SaaS supports multiple users and provides a shared data model through _____ model. **CO1**
a) single-tenancy b) multi-tenancy c) multiple-instance d) all of the mentioned
- Which cloud is deployed when there is a budget constraint but business autonomy is most essential? **CO1**
a) Private cloud b) Public cloud c) Hybrid cloud d) Community cloud
- _____ cloud is one where the cloud has been organized to serve a common function or purpose by many organization. **CO1**
a) Public b) Private c) Community d) All of the mentioned
- Which of these is not a major type of cloud computing usage? **CO1**
a) Hardware as a Service b) Platform as a Service
c) Software as a Service d) Infrastructure as a Service
- Google Apps Engine is a type of **CO1**
a) SaaS b) PaaS c) IaaS d) NA

SECTION – B

(5 x 2 = 10)

ANSWER ANY FIVE OF THE FOLLOWING:

- Define cloud computing? **CO1**
- Give any four advantages of cloud computing? **CO1**
- Give four application of cloud? **CO1**
- What is meant by hybrid cloud? **CO1**
- What are the difference between private cloud and public cloud? **CO1**
- Expand: NIST , CSP **CO1**
- Define SaaS? **CO1**

SECTION – C

(3 x 6 = 18)

ANSWER ANY THREE OF THE FOLLOWING

- | | |
|---|------------|
| 8. Brief a note on uses of cloud computing with examples? | CO1 |
| 9. Write a summary on cloud service models? | CO1 |
| 10. Brief a note on Cloud computing infrastructure? | CO1 |
| 11. Compare the characteristics of IaaS, PaaS, SaaS? | CO1 |
| 12. Explain the types of clouds? | CO1 |


SECTION – D

(1 x 12 = 12)

ANSWER ANY ONE OF THE FOLLOWING

- | | |
|--|------------|
| 13. Enumerate on the cloud computing architecture? | CO1 |
| 14. Analyze the infrastructure and constraints? | CO1 |

VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST - 625 234**DEPARTMENT OF COMPUTER SCIENCE**

	Course Code: 10SB31	Programme:	B.SC.	CIA: I Test
	Date: 07.10.2020	Course:	COMPUTER SCIENCE	Semester: III
	Time: 2Hrs	Year:	II	Maximum: 25 Marks
	Course Title:	OPERATING SYSTEM		

SECTION-A**Answer ALL questions:****(05X01=05)**

- _____ is a processor that manipulates and perform arithmetic operations. **CO1**
A) ALU B) CPU C) Motherboard D) Memory
- Software is a collection of a _____. **CO1**
A) Program B) Data C) Task D) Both A&B
- _____ is an interface between a computer user and computer hardware. **CO1**
A) Devices B) Control unit C) Processor D) Operating system
- _____ Process is waiting for some event. **CO1**
A) Wait B) Run C) Execute D) Ready
- _____ type of OS each task is given some time to executed. **CO1**
A) Batch OS B) Distributed OS C) Time sharing OS D) Real time OS

SECTION-B**Answer any TWO questions:****(02X02=04)**

- Difference between Software and Hardware with example? **CO1**
- What is Memory? Define Primary and Secondary Memory? **CO1**
- Define Compiler and Interpreter? **CO1**
- List out the Different types of Management with suitable example? **CO1**

SECTION-C**Answer any ONE question:****(01X6=06)**

- Discuss about the Basic Concept and Terminology for Operating System. **CO1**
- Explain the Importance of Operating System. **CO1**

SECTION-D**Answer any ONE question:****(01X10=10)**

- Explain the types of Operating System Resources Manager and OS process of a viewpoint. **CO1**
- Define OS? And discuss about the Different types of Operating System. **CO1**

VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST - 625 234

DEPARTMENT OF COMPUTER SCIENCE



Course Code: 10SB51	Programme:	B.SC	CIA: I Test
Date: 06.10.2020	Course:	COMPUTER SCIENCE	Semester: V
Time: 2Hrs	Year:	III	Maximum: 50 Marks
Course Title:	Competitive Exam for IT		

SECTION-A

Answer all the questions

1) One digit number sometimes called

- A) Once B) Units C) Single Digit D) Number

2) 637849 this is a number Face value (8) =?

- A) 800 B) 80 C) 8 D) 88

3) 637849 this is a number Place value (3) =?

- A) 30000 B) 3000 C) 300 D) 3000000

4) 2, 5, 10, 17, 26, ??, 50, ??

- A) 36, 65 B) 36, 63 C) 37, 66 D) 37, 65

5) 9587-? =7429-4358

- A) 6516 B) 6563 C) 6662 D) 6514

6) __ aa __ ba __ bb __ ab __ aab

- A) aaabb B) babab C) bbaab D) bbbaa

7) ba __ b __ aab __ a _ b

- A)acbc B)acba C)baba D)abba

8) Find the missing number for the given box?

5	9	5
4	7	7
3	10	3
6	6	?

- A)9 B)3 C)11 D)8

9) Find the missing number for the given box?

4	7	113
5	6	?
7	2	347

- A)93 B)161 C)113 D)12

10) CB=5, DISCH=43 NEVER=?

- A)64 B)65 C)14 D)48

11) HEART= @8531 ; FEAST= #8541 ;FARTHEST=?

- A) #541@831 B)@541#831 C) #831@541 D)#531@841

12) NOTION-LMRGML; VECTOR=?

- A)VEGXIL B)VEXGLI C)EVTCTRO D)EVROTC

13) Find the missing LETTER for the given box?

B	C	E	G	K	M
Y	X	V	T	P	?

- A)L B)S C)N D)O

14) A hospital has always

- A) Attendants B) nurses C) emergency D) doctors

15)find odd man out

- A)Mouth B)Eye C)liver D)lung

16) Computers use the _____ language to process data.

- A) Relational B) megabyte C) binary D) Processing

17) Coffee :: cup:: soup : ? .

- A) Chicken B) appetizer C) Plate D) Bowl

18) Man: Biography : : Nation : ? .

- A) History B) Geography C) People D) leader

19) The brain of computer system is

- A) ALU B) Memory C) CPU D) Control unit

20) The 3rd generation computers manufactured by

- A) vacuum tubes B) transistors C) micro processor D)IC

21)Binding:Book

- A) display:museum B) frame:picture C)artist:carpenter D) criminal:gang

22) look this series : 7,10,8,11,9,12..... what number should come next?

- A)7 B)10 C)12 D)13

23) A, E, I,?, U

- A) A B) S C) O D)U

24) Full form of URL is ?

- A)Uniform Resource Locator B)Uniform Resource Link
C)Uniform Registered Link D)Unified Resource Link

25) _____ is data that has been organized or presented in a meaningful way.

- A)Process B) information C) storage D)software

26) A/2, B/4, C/6, D/8 .?,?

- A) E/8, F/10 B) E/12, F/14 C) E/10, F/12 D) D/10, E/10

27) _____ controls the way in which the computer system functions and provides a means by which users can interact with the computer.

A) The operating system B) The motherboard C) The platform D) Application software

28) Restaurant:: meal :: vending machine : ?

A) lobby B) snack C) candy D) Change

29) FULL is the antonyms of _____

A) Hollow B) Light C) Thin D) Empty

30) If ACTION is coded as ZXGRLM, then HEALTH will be coded as

A) SVZOGS B) TVZOGT C) RUZPGR D) QVGOZQ

31) If you write down all the numbers from 1 to 100, then how many times do you write 3 ?

A) 11 B) 18 C) 20 D) 21

32) Given interchanges : Signs + and - , numbers 4 and 8.

A) $4 + 8 - 12 = 12$ B) $4 - 8 + 12 = 0$ C) $8 + 4 - 12 = 2$ D) $8 - 4 + 12 = 8$

33) Find out the two signs to be interchanged for making following equation correct

$$5 + 3 \times 8 - 12 / 4 = 3$$

A) + and - B) + and / C) + and x D) - and /

34) If \times stands for 'addition', \div stands for 'subtraction', + stands for 'multiplication' and - stands for 'division', then

$$20 \times 8 \div 8 - 4 + 2 = ?$$

A) 80 B) 25 C) 24 D) 19

35) Select the correct set of symbols which will fit in the given equation?

$$5 \ 0 \ 3 \ 5 = 20$$

A) x, x, x B) -, +, x C) x, +, x D) +, -, x

36) If Q means 'add to', J means 'multiply by', T means 'subtract from' and K means 'divide by' then $30 \ K \ 2 \ Q \ 3 \ J \ 6 \ T \ 5 = ?$

$$6 \ T \ 5 = ?$$

A) 28 B) 18 C) 31 D) 103

37) Given interchanges : Signs + and x and numbers 4 and 5

A) $5 \times 4 + 20 = 40$ B) $5 \times 4 + 20 = 85$ C) $5 \times 4 + 20 = 104$ D) $5 \times 4 + 20 = 95$

38) If \times means \div , - means \times , \div means + and + means - then $(3 - 15 \div 19) \times 8 + 6 = ?$

A) 8 B) 4 C) 10 D) 2

39) What is $7 + 7 \div 7 + 7 \times 7 - 7 = ?$

A) 50 B) 42 C) 0 D) 57

40) 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

41) Find the missing number in the following series? 3, 5, 5, 19, 7, 41, 9, ?

A) 91 B) 61 C) 79 D) 71

42) What should come in place of question mark (?) in the following number series?

132 156 ? 210 240 272

A) 196 B) 182 C) 199 D) 204

43) Look at this series: 201, 202, 204, 207, . . . What number should come next?

A) 205 B) 208 C) 210 D) 211

44) Which word does NOT belong with the others?

- A) GUITAR B) FLUTE C) VIOLIN D) CELLO

45) Which word does NOT belong with the others?

- A) COUCH B) RUG C) TABLE D) CHAIR

46) Look at this series: 3, 4, 7, 8, 11, 12, . . . What number should come next?

- A) 7 B) 10 C) 15 D) 14

47) Look at this series: V, VIII, XI, XIV, __, XX,... What number should fill the blank?

- A)IX B)XXIII C) XV D) XVII

48) In a certain code language, WINDOW is coded as 452364, SHADE as 17839. Then HIDDEN is coded as?

- A) 763392 B) 753392 C) 765595 D) 756696


49) Arranging of data in a logical sequence called is

- A) Sorting B) classifying C) reporting D) summarising

50) A text is entered, using word processor by means of a

- A) Printer B) disk C) file D) keyboard

DEPARTMENT OF COMPUTER SCIENCE

	Course Code: 10AT11	Programme:	B.SC	CIA: I Test
	Date: 03.10.2020	Course:	COMPUTER SCIENCE	Semester: I
	Time: 2Hrs	Year:	I	Maximum: 50 Marks
	Course Title:	DISCRETE MATHEMATICS		

SECTION-A

Answer all questions

(10X1=10)

- 1) If $a_{ij} = 0$, then the matrix A is _____.
a) Null b) Zero c) a & b d) none **CO2**
- 2) If $A^2 = A$, then the matrix A is _____.
a) Idempotent b) Involutory c) square d) none **CO2**
- 3) $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$, then the matrix is _____.
a) Unit b) Scalar c) diagonal d) All of the above **CO2**
- 4) _____ is a statement to which only one of the terms, true or false, can be meaningfully applied.
a) Proposition b) Logical c) NAND d) none **CO3**
- 5) The negation of p is denoted by _____.
a) $\sim p$ b) not p c) 7p d) all the above **CO3**
- 6) A statement formula that is neither a tautology nor a contradiction is called _____.
a) tautology b) contradiction c) contingency d) All of the above **CO3**
- 7) The word NOR is combination of _____.
a) NOT, OR b) AND, OR c) NOT, AND d) none **CO3**
- 8) $AB=BA=$ _____.
a) I b) Transpose c) Zero d) none **CO2**
- 9) Conjunction is also known as _____.
a) AND b) OR c) NOT d) Conditional **CO3**
- 10) $(A^T)^T =$ _____.
a) A b) Unit c) Zero d) none **CO2**

SECTION-B

Answer any FIVE questions

(5X2=10)

- 11) Define Matrix **CO2**
- 12) Write the types of Matrix **CO2**
- 13) Define Propositions **CO3**
- 14) Write the truth tables i) AND ii) Bi-Conditional **CO3**
- 15) Draw logic network $(a+b).ab?$ **CO3**
- 16) Define Tautology **CO3**
- 17) Define Unit Matrix **CO2**

SECTION-C

Answer any THREE questions

(3X6=18)

- 18) Verify if the proposition $(P \vee Q) \vee (P \wedge Q)$ is tautology or not. **CO3**
- 19) If $A = \begin{bmatrix} 2 & -3 & 1 \\ 3 & 1 & 3 \\ -5 & 2 & -4 \end{bmatrix}$ Show that $A(A-I)(A+2I) = 0$. **CO2**
- 20) Explain about the truth table in mathematic logic. **CO3**

- 21) Find the inverse of $A = \begin{bmatrix} 2 & 4 & 1 \\ 0 & 3 & 7 \\ 8 & 1 & 5 \end{bmatrix}$ **CO2**

22) Prove that $\sim (P \wedge Q) \rightarrow [\sim P \vee (\sim P \vee Q)] \Leftrightarrow \sim P \vee Q$

CO3

SECTION-D

Answer any one


(1X12=12)

23) Explain the types of matrix.

CO2

24) Construct the truth table for $(\sim P \wedge (\sim Q \wedge R)) \vee ((Q \wedge R) \vee (P \wedge R))$

DEPARTMENT OF COMPUTER SCIENCE

	Course Code: 10AT31	Programme:	B.SC.	CIA: I Test
	Date: 03.10.2020	Course:	COMPUTER SCIENCE	Semester: III
	Time: 2Hrs	Year:	II	Maximum: 50 Marks
	Course Title:	OPERATIONS RESEARCH		

SECTION-A

Answer all the questions

(10X1=10)

- 1) OR was coined in the year 1940 by ----- **CO1**
a) McClosky b) Thefthen c) both d) none
- 2) Operation research analysis do not **CO1**
a) predict future operation b) build more than model c) collect relevant data d) recommended decision adopt
- 3) Iconic model is known as ----- **CO1**
a) Physical b) Chemical c) biological d) none
- 4) ----- Model abstract in nature **CO1**
a) iconic b) Analogue c) Mathematical d) none
- 5) ----- prescribes a course of action of the problem **CO1**
a) Simulation model b) Analogue Model c) Prescriptive Model d) none
- 6) If total of supply and total of demand is equal to the problem is called----- **CO4**
a) Balanced b) Unbalanced c) optimum d) not optimum
- 7) The initial transportation problem can be generated manner ----- **CO4**
a) it minimizes cost b) all supply and demands are satisfied c) degeneracy doesn't exist d) all cells are filled
- 8) On travelling salesman problem starting city and ending city should be----- **CO4**
a) Same b) not same c) different d) none
- 9) Which method is used to solve Transportation problem----- **CO4**
a) Hungarian b) MODI c) VAM d) LPP
- 10) Another name of mathematical model is ----- **CO1**
a) Static b) symbolic c) prescriptive d) Simulation

SECTION-B

Answer any FIVE questions

(5X2=10)

11. Define OR **CO1**
12. Define IBFS. What is the procedure to solve it? **CO4**
13. Give the mathematical formulation of Transportation Problem **CO4**
14. Write about Physical Model **CO1**
15. Define Transportation Problem **CO1**
16. what are the methods to solve OR models name it **CO1**
17. Define Iconic Model **CO1**

SECTION-C

Answer any THREE questions

(3X6=18)

18. Discuss about Scientific methods in OR **CO1**
19. Give any 6 models of OR **CO1**
20. Find IBFS using least cost method using transportation problem **CO4**

		Market					Available
		I	II	III	IV	V	
factory	A	4	1	2	6	9	100
	B	6	4	3	5	7	120
	C	5	2	6	4	8	120
Demand		40	50	70	90	90	

21. Find IBFS using least cost VAM method using transportation problem

CO4

		MACHINES				Supply
		M1	M2	M3	M4	
JOBS	J1	21	16	25	13	11
	J2	17	18	14	23	13
	J3	32	27	18	41	19
<hr/> Demand		6	10	12	15	

22. Give applications of OR

CO1

SECTION-D

Answer any ONE

(1X12=12)

23. Explain steps are involved to solve the OR


CO1

24. Find IBFS using (i) VAM (ii) LCM (iii)NWCR

CO4

salesman	Area				Available
	I	II	III	IV	
A	11	13	17	14	250
B	16	18	14	10	300
C	21	24	13	10	400
Requirement	200	225	275	250	

VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST - 625 234**DEPARTMENT OF COMPUTER SCIENCE**

	Course Code: 10CT11	Programme:	B.SC.	CIA: I Test
	Date: 28.09.2020	Course:	COMPUTER SCIENCE	Semester: I
	Time: 2Hrs	Year:	I	Maximum: 50 Marks
	Course Title:	PROGRAMMING IN C		

SECTION-A**Answer all questions****(10X1=10)**

- Which function display information on screen **CO1**
a) printf () b) gets() c) scanf() d) getchar()
- Which function reading information from keyboard **CO1**
a) printf () b) puts() c) scanf() d) put()
- The size of float data type is **CO1**
a) 16bits b) 8bits c) 32bits d) 64bits
- Find the Assignment operator from the following **CO1**
a) == b) >= c) = d) <=
- The values of void data type is **CO1**
a) NULL b) 1 c) 8 d) 16
- Valid Symbolic constant declaration from the following ----- **CO1**
a) #define X=25 b) # define MAX 10 c) #define N 25; d) #define MAX 10
- main() function we can using in C **CO1**
a) Many b) 1 c) 2 d) none
- Valid variable name declaration from the following ----- **CO1**
a) char b) price\$ c) First_tag d) First tag
- Valid keywords in C from the following ----- **CO1**
a) Int b) int c) size of d) DOUBLE
- The Modulo operator returns only ----- value **CO1**
a) Real b) integer c) float d) mantissa

SECTION-B**Answer any FIVE questions****(5X2=10)**

- Define C **CO1**
- How to declare a variable give syntax with example **CO1**
- Write a c program to display your name **CO1**
- Write about symbolic constant with example **CO1**
- Define keyword **CO1**
- What are the commonly used printf format codes in C **CO1**
- How to assign a value to the variable give syntax with example **CO1**


SECTION-C**Answer any THREE questions****(3X6=18)**

- Write about user defined data type with example **CO1**
- Explain Basic Structure of C programming **CO1**
- Explain the Basic Data types in C **CO1**
- Write short notes about formatted Input statement in C with example **CO1**
- What are the procedure to run a C program explain with example **CO1**

SECTION-D**Answer any two****(1X12=12)**

- Explain about C Tokens **CO1**
- Write about operators in C with example **CO1**

DEPARTMENT OF COMPUTER SCIENCE

	Course Code: 10CT12	Programme:	B.SC.	CIA: I Test
	Date: 01.10.2020	Course:	COMPUTER SCIENCE	Semester: I
	Time: 2Hrs	Year:	I	Maximum: 50 Marks
	Course Title:	DIGITAL PRINCIPLES AND COMPUTER ORGANIZATION		

SECTION-A

Answer ALL Questions:

(10X1=10)

- Any set of digits or alphabets are generally referred as _____. **CO1**
A) Characters B) Symbols C) Bits D) Bytes
- Representation of a hexadecimal number 6DE in power of 16 is as: **CO1**
A) $6 * 16^2 + 13 * 16^1 + 14 * 16^0$ B) $6 * 16^2 + 12 * 16^1 + 13 * 16^0$
C) $6 * 16^2 + 11 * 16^1 + 14 * 16^0$ D) $6 * 16^2 + 14 * 16^1 + 15 * 16^0$
- $A(A+B)=?$ **CO1**
A) AB B) 1 C) (1+AB) D) A
- Which of the following is not a Hexa-Decimal number? **CO1**
A) F B) H C) A D) D
- The Boolean equation of AND gate is _____. **CO1**
A) A+B B) (A.B)' C) (A+B)' D) A.B
- The _____ gate is an OR gate followed by a NOT gate. **CO1**
A) NAND B) EXOR C) NOR D) EXNOR
- The number of characters that can be represented in ASCII are _____. **CO1**
A) 32 B) 256 C) 128 D) 64
- The expression of a NAND gate is _____. **CO1**
A) A.B B) A'B+AB' C) (A.B)' D) (A+B)'
- Multiplexer circuit has _____ inputs but only _____ output **CO2**
A) One, One B) Many, Many C) One, Many D) Many, One
- How many AND gates are required for a 8 to 1 multiplexer? **CO2**
A) 2 B) 6 C) 4 D) 5

SECTION-B

Answer any FIVE Questions :

(5X2=10)

- List out the Different Types of Numbers. **CO1**
- List the Difference between Nibble and Byte. **CO1**
- Draw the Logic Circuit for the Boolean Equation $Y=A'BC+AB'C$ **CO1**
- Convert the following Binary to Octal: **CO1**
A) 100110101011₂
B) 001110010011₂

15. Convert the 1011_2 to Equivalent Decimal Number. **CO1**
16. Convert the 5678 Excess-3 code. **CO1**
17. Convert the following BCD to Decimal: **CO1**
- A) 01000010
- B) 1000100101100011

SECTION-C

Answer any THREE Questions: **(3X6=18)**


18. Draw and Explain for the NOR Gate. **CO1**
19. Write any Six Basic Laws and Boolean algebra. **CO1**
20. A) Convert the 278.250_{10} to Binary Number. **CO1**
- B) Convert the BC2H to Decimal Number.
21. Prove that $A(A' + B) = AB$ **CO1**
22. Discuss about the 4 – 1 Multiplexer with Neat Diagram. **CO2**

SECTION-D

Answer any ONE Questions: **(1X12=12)**

23. Explain the Basic Logic Gates with Neat Circuit. **CO1**
24. Discuss about the De-Multiplexer with Neat Sketch. **CO2**

DEPARTMENT OF COMPUTER SCIENCE

	Course Code: 10CT31	Programme:	B.SC.	CIA: I Test
	Date: 28.09.2020	Course:	COMPUTER SCIENCE	Semester: III
	Time: 2Hrs	Year:	II	Maximum: 50 Marks
	Course Title:	COMPUTER NETWORKS		

SECTION – A

(10 x 1 = 10)

ANSWER ALL THE QUESTIONS:

- Interconnection of computers using transmission medium is called _____. **CO1**
a) Routing b) Internet c) Network d) e-commerce
- A computer on the network shares resources for others to use, then it is called as a _____. **CO1**
a) Client b) Server c) mainframe d) workstation
- Sending packets to a group of stations is known as _____. **CO1**
a) Broadcasting b) multicasting c) Unicasting d) point-to-point
- _____ mechanism is used to resolve conflicts between two or more computers to send data **CO1**
a) LIFO b) Arbitration c) centralized d) decentralized
- _____ is a switching element in a network **CO1**
a) Repeater b) Amplifiers c) Router d) Bluetooth
- _____ system uses connection oriented service **CO1**
a) Telephone b) Postal c) DNS d) Telegraph
- _____ are set of operations performed by the user process to access a service **CO1**
a) Trapping b) Primitives c) IP routing d) encoding
- Number of layers present in OSI protocol stack is _____. **CO1**
a) 5 b) 6 c) 4 d) 7
- TCP is a _____ layer protocol **CO1**
a) Network b) Transport c) Data Link d) Application
- _____ layer in the OSI is concerned with syntax and semantics of data **CO1**
a) Application b) Presentation c) Data link d) Network

SECTION – B

(5 x 2 = 10)

ANSWER ANY FIVE OF THE FOLLOWING:

- Define Network Architecture and give its types? **CO1**
- Give any four advantages of computer networks? **CO1**
- Give four applications of computer networks? **CO1**
- What is meant by modem? **CO1**
- What are the differences between connection oriented and connectionless service? **CO1**
- Which layer of the OSI handles the following: **CO1**
a) Session layer
b) Application layer
- Define WAPs? **CO1**

SECTION – C

(3 x 6 = 18)

ANSWER ANY THREE OF THE FOLLOWING

- | | |
|---|------------|
| 18. Brief a note on uses of computer networks? | CO1 |
| 19. Write a summary on TCP in networks? | CO1 |
| 20. Brief a note on network hardware? | CO1 |
| 21. Compare the characteristics of LAN and WAN? | CO1 |
| 22. Explain the types of topology in computer networks? | CO1 |


SECTION – D

(1 x 12 = 12)

ANSWER ANY ONE OF THE FOLLOWING

- | | |
|--|------------|
| 23. Enumerate on the characteristics of OSI Reference model? | CO1 |
| 24. Analyze the layers of TCP / IP reference model? | CO1 |

DEPARTMENT OF COMPUTER SCIENCE

	Course Code: 10CT32	Programme:	B.SC	CIA: I Test
	Date: 01.10.2020	Course:	COMPUTER SCIENCE	Semester: III
	Time: 2Hrs	Year:	II	Maximum: 50 Marks
	Course Title:	COMPUTER GRAPHICS		

SECTION – A (10 x 1 = 10)

ANSWER THE FOLLOWING:

- _____ device is used to produce painting through a specially designed software to produce automatic computer art. a) Inkjet printer b) Pen plotter c) Stylus d) camera **CO1**
- _____ is an example for a paint brush program
a) MS Power point b) MS word c) Mathematica d) Lumena **CO1**
- _____ is used in designing of buildings, automobiles, aircrafts, textiles, computers and spacecrafts
a) Presentation graphics b) computer art c) CAD d) image Processing **CO1**
- _____ environments used to determine how the operators of a vehicle are affected by certain motions
a) Wireframe display b) Virtual Reality c) operating system d) Architectural CAD **CO1**
- Film animation requires_____ no. of frames per second for an animated movement sequence
a) 24 b) 36 c) 20 d) 30 **CO1**
- _____ is a process of transforming an object or a person into another in image processing technology
a) Morphing b) Motion Capture c) Animation d) Surface rendering **CO1**
- _____ is used to improve picture quality
a) image processing b) color codes c) 2D animation d) persistence **CO1**
- The property of emitting light for a period of time after the CRT beam stops emission is called____
a) Phosphorescence b) Resolution c) Persistence d) Aspect Ratio **CO1**
- Each screen points are referred as _____ a) Pixmap b) Bitmap c) Scan line d) Pixel **CO1**
- Calculators uses _____ type of display for output
a) Plasma panel b) LED c) LCD d) CRT **CO1**

SECTION – B (5 x 2 = 10)

ANSWER ANY FIVE OF THE FOLLOWING:

- Give any two applications of Computer Aided Designing? **CO1**
- Give any two examples for Presentation softwares? **CO1**
- What is meant by Animation? **CO1**
- List any two types of visualization techniques? **CO1**
- List the two methods to produce color display in CRT? **CO1**
- Distinguish emissive and non-emissive displays with suitable examples for each? **CO1**
- What is the purpose of Digitizers? **CO1**

SECTION – C **(3 x 6 = 18)**

ANSWER ANY THREE OF THE FOLLOWING:


- | | |
|---|------------|
| 18. Brief a note on any three applications of computer graphics in various field in the industry? | CO1 |
| 19. Summarize the working of a Refresh CRT with a neat diagram? | CO1 |
| 20. Critically analyze the working of Color CRT monitors? | CO1 |
| 21. Discuss about Raster Scan Display Processor? | CO1 |
| 22. Bring out the standards available for graphics software today? | CO1 |

SECTION – D **(1 x 12 = 12)**

ANSWER ANY ONE OF THE FOLLOWING:

- | | |
|---|------------|
| 23. Explain in detail the working of Random Scan Displays? | CO1 |
| 24. Explain with a neat diagram the architecture and basic operation of a raster scan system? | CO1 |

DEPARTMENT OF COMPUTER SCIENCE

	Course Code: 10CT51	Programme:	B.SC.	CIA: I Test
	Date: 29.09.2020	Course:	COMPUTER SCIENCE	Semester: V
	Time: 2Hrs	Year:	III	Maximum: 50 Marks
	Course Title:	COMPUTER NETWORKS		

SECTION – A (10 x 1 = 10)

ANSWER ALL THE QUESTIONS:

- Interconnection of computers using transmission medium is called _____.
a) Routing b) Internet c) Network d) e-commerce CO1
- A computer on the network shares resources for others to use, then it is called as a _____.
a) Client b) Server c) mainframe d) workstation CO1
- _____mechanism is used to resolve conflicts between two or more computers to send data
a) LIFO b) Arbitration c) centralized d) decentralized CO1
- Sending packets to a group of stations is known as _____.
a) Broadcasting b) multicasting c) Unicasting d) point-to-point CO1
- _____is an switching element in a network
a) Repeater b) Amplifiers c) Router d) Bluetooth CO1
- _____system uses connection oriented service
a) Telephone b) Postal c) DNS d) Telegraph CO1
- _____ are set of operations performed by the user process to access a service
a) Trapping b) Primitives c) IP routing d) encoding CO1
- Number of layers present in OSI protocol stack is _____.
a) 5 b) 6 c) 4 d) 7 CO1
- TCP is a _____ layer protocol
a) Network b) Transport c) Data Link d) Application CO1
- _____ layer in the OSI is concerned with syntax and semantics of data
a) Application b) Presentation c) Data link d) Network CO1

SECTION – B (5 x 2 = 10)

ANSWER ANY FIVE OF THE FOLLOWING:

- Define Network Architecture and give its types? CO1
- Give any two advantages of client server system using a LAN? CO1
- Give the Protocols in the transport layer of OSI? CO1
- List the Protocols in the Internet Layer of the TCP/IP? CO1
- What are the difference between connection oriented and connectionless service? CO1
- Which layer of the OSI handles the following: CO1
 - Dividing the transmitted bit stream into frames
 - Determine which route through a subnet to use
- Classify the types of networks based on the transmission technology? CO1

SECTION – C (3 x 6 = 18)

ANSWER ANY THREE OF THE FOLLOWING


- | | |
|---|-----|
| 18. Brief a note on uses of networks? | CO1 |
| 19. Write a note on SNA architecture? | CO1 |
| 20. Identify the design issues in the layers of the network? | CO1 |
| 21. Compare the characteristics of LAN and WAN? | CO1 |
| 22. Explain the characteristics of connection oriented and connection less service? | CO1 |

SECTION – D (1 x 12 = 12)

ANSWER ANY ONE OF THE FOLLOWING

- | | |
|--|-----|
| 23. Enumerate on the characteristics of OSI Reference model? | CO1 |
| 24. Analyze the layers of TCP / IP reference model? | CO1 |

DEPARTMENT OF COMPUTER SCIENCE

	Course Code: 10CT52	Programme:	B.SC.	CIA: I Test
	Date: 30.09.2020	Course:	COMPUTER SCIENCE	Semester: V
	Time: 2Hrs	Year:	III	Maximum: 50 Marks
	Course Title:	JAVA PROGRAMMING		

SECTION-A

Answer all questions

(10X1=10)

- 1) Object Oriented Programming language was developed by _____. **CO1**
 a) Microsoft b) Sun Microsystems c) Oracle d) IBM
- 2) What is JAVAC ____? **CO1**
 a) Compiler b) Assembler c) Debugger d) Editor
- 3) Data types in java under various categories are _____. **CO1**
 a) Primitive b) Non-Primitive
 c) Primitive and Non-Primitive d) All of the above
- 4) The Ranges of the Short values on _____. **CO1**
 a) -32,767 to 32,768 b) -32,768 to 32,767
 c) -31,767 to 31,768 d) -31,767 to 31,768
- 5) In the Bitwise OR operator is defined as _____. **CO1**
 a) & b) | c) ~ d) ^
- 6) Consider the following evaluation statement $x = a - b/3 + c*2 - 1$, where $a=9, b=12, c=3$
 a) 11 b) 10 c) 9 d) -10 **CO1**
- 7) The Java compiler produces an intermediate code known as _____. **CO1**
 a) JVM b) Byte code c) JDK d) JRE
- 8) % operator is used in java _____. **CO1**
 a) Dividend b) Divisor c) Remainder d) Percentage
- 9) While loop is _____. **CO1**
 a) Entry b) Exit c) Entry-Exit d) none
- 10) ? is denoted as _____. **CO1**
 a) Conditional b) Assignment c) Relational d) logic

SECTION-B

Answer any FIVE questions

(5X2=10)

- 11) Any two difference between with JAVA and C++? **CO1**
- 12) Define Class. **CO1**
- 13) Expand JVM, JDK **CO1**
- 14) Define Object **CO1**
- 15) What is OOP's? **CO1**
- 16) Define Encapsulation **CO1**
- 17) Define Inheritance **CO1**

SECTION-C

Answer any THREE questions

(3X6=18)

- 18) Explain about looping statements **CO1**
- 19) Discuss about Data types with examples? **CO1**
- 20) How Java differ from C and C++ **CO1**
- 21) Explain about Java Environment **CO1**
- 22) Write short notes on 1. Array
 2. Identifier **CO1**


SECTION-D

Answer any one

(1X12=12)

- 23) Briefly explain about Operators with examples? **CO1**
- 24) Explain about Branching statements with examples? **CO1**

DEPARTMENT OF COMPUTER SCIENCE

	Course Code: 10CT53	Programme:	B.SC.	CIA: I Test
	Date: 01.10.2020	Course:	COMPUTER SCIENCE	Semester: V
	Time: 2Hrs	Year:	III	Maximum: 50 Marks
	Course Title:	SOFTWARE ENGINEERING		

SECTION-A

Answer ALL questions:

(10X1=10)

- Software can be defined as _____. **CO1**
A) Instructions B) Data structures C) Documents D) All of these
- Water fall model is sometimes called as a _____. **CO1**
A) Lifecycle B) V-process model C) Ordered model D) Classic life cycle
- Software engineering is a _____. **CO1**
A) Information technology B) Computer technology
C) Layered technology D) Software technology
- _____ defines the properties of a data object. **CO1**
A) Entity B) Data object C) Relationship D) Cardinality
- Which forms the basis for management control of software project? **CO1**
A) Methods B) Tools C) Process D) Quality focus
- Transformations are represented by _____. **CO2**
A) Circle B) Triangle C) Arrows D) Line
- The Data flow diagram shows _____. **CO2**
A) The flow of data B) The processes
C) The areas where they are stored D) All of the above
- _____ factor in design is assessed by human factors. **CO2**
A) Usability B) Reliability C) Performance D) Supportability
- The ___ diagram involves transitions from one object to another object. **CO2**
A) Action B) Sequence C) State D) DFD
- A _____ abstraction is a named collection of data that describes a data object. **CO2**
A) Data B) Procedural C) Design D) Architecture

SECTION-B

Answer any FIVE questions

(5X2=10)

- Define Software Engineering. **CO1**
- List any four types of Software? **CO1**
- List out the any four Software Quality Attributes? **CO1**
- Who is the Software Engineer? **CO1**

- | | |
|---|------------|
| 15. What is the Characteristics of Software Product? | CO1 |
| 16. What is the use of COCOMO? | CO2 |
| 17. List out the types of Estimation Software Maintenance Cost. | CO2 |

SECTION-C

Answer any THREE questions **(3X6=18)**

- | | |
|---|------------|
| 18. Discuss about the types of Project Size Categories. | CO1 |
| 19. Explain the Classical Life Cycle Model. | CO1 |
| 20. Explain any Six Quality and Productivity Factors. | CO1 |
| 21. Discuss about the Staffing Level Estimation. | CO2 |
| 22. Write a Short Notes on Software Cost Factors. | CO2 |

SECTION-D

Answer any ONE questions **(1X12=12)**

- | | |
|---|------------|
| 23. Explain about the Planning an Organization Structure. | CO1 |
| 24. Explain any Two Software Cost Estimation Techniques. | CO2 |