

🕠 SRI BHAGAWAN MAHAVEER JAIN **COLLEGE**

Vishweshwarapuram, Bangalore.

II PUC MOCK PAPER - 2 (FEB-2023)

II PUC **Course:**

Subject:

Computer Science

Max. Marks: 70

> **Duration:** 3:00 Hrs 15 Mins

Answer all the questions. Each question carries one mark.

 $1 \times 20 = 20$

I.	Select the correct answer from the choice	ces given: (Repeated answers will not be considered)	
1.	What is Cache Memory?		
	a) High Speed	b) Volatile Memory	
	c) Main memory	d) Escape Memory	
2.	The other name of Boolean algebra is		
	a) Switching algebra	b) Relational Algebra	
	c) Digital Algebra	d) None of the above	
3.	The other name of NOT gate is		
	a) Neglect gate	b) Inverter gate	
	c) XOR gate	d) XNOR gate	
4.	The data structure that allows the insertion, as well as the deletion from both the ends are:		
	a) String	b) Linked List data structure	
	c) Stack data structure	d) Dequeue data structure	
5.	What is the other name used for Variable inside a class?		
	a) Data Members	b) Member functions	
	c) Class functions	d) Class variables	
6.	Function cannot be overloaded when		
	a) Function names are same	b) Number of parameters are different	
	c) Number of parameters are same	d) Data types of parameters are different	
7.	The symbol used with destructor is		
	a) \$	b) &	
	c) Delta	(d) ~	
8.	Base class is		
	a) a sub class	b) inherited class	
	c) Main class	d) First class	
9.	Which of the following is the correct way to declare a pointer?		
	a) int *ptr	b) int ptr	
	c) int &ptr	d) All of the above	
10.	is called information.		
	a) Raw fact	b) collection of data	
	c) Unprocessed data	d) Processed data	
11.	DDL is		
	a) Data Definition Language	b) Double Data Language	
	c) Data Default Language	d) None of these	
12.	SMTP stands for		
	a) Simple Male Transfer Protocol	b) Simple Mail Transfer Protocol	
	c) Simple Mail Transfer Protocol	d) Simple Mesh Transfer Protocol	

13.	Which of the following is not a ty	pe of network?			
	a) LAN	b) MAN			
	c) PAN	d) VAN			
14.	Source Code is not available in				
	a) Free Software	b) Freeware			
	c) Shareware	d) Proprietary Software			
15.	CSS stands for				
	a) Cascading Style Sheet	b) Causing Styling Sheet			
	c) Climate Shine Sheet	d) None of these			
II	Fill in the blanks choosing the a	ppropriate word/words from those given in	n brackets.		
(R	Repeated answers will not be cons	idered)			
(T	Suple, Rectangle, MYSQL, ISAM, S	Schema)			
16.	The structure of database is called	as			
17.	7 is the symbol used to represent entity.				
18.	8. Row of a table is also called as				
19.	9is a software for creating and managing databases.				
20.	is a combination of serial and random file organization.				
		PART - B			
III.	. Answer any Four questions. Eac	ch question carries two marks.	$4 \times 2 = 8$		
21.	Prove algebraically that ($X + Y$)	(X+Z)=X+YZ			
22.	State and Prove any one DeMorga	n's Theorem using Truth Table			
23.	3. Define Polymorphism. Give an Example				
24.	4. Write the features of parameterized Constructor				
25.	Mention any two ifstream function	n			
26.	Mention the types of data indepen	dence.			
27.	7. Write the syntax and example for insert command in SQL				
28.	Briefly explain Wide Area Netwo	rk.			
		PART - C			
III.	. Answer any Four questions. Eac	ch question carries THREE marks.	$4 \times 3 = 12$		
29.	What is cache memory? Explain i	ts types.			
30.	Write the logic diagram and truth	table for NAND gates.			
31.	Write any three applications of sta	ıck.			
32.	What are the advantages of pointe	rs.			
33.	Explain any three file opening mo	des.			
34.	Explain network database model.				
35.	Write any three advantages of e-ce	ommerce			
36.	Explain any three text formatting	tags in HTML.			
		PART-D			
	Answer any Six questions. Each	-	$6 \times 5 = 30$		
		action using K-map $F(A,B,C,D) = \sum (0,1,2,3,4,0)$,6,8,10,12,14)		
	Briefly explain different operation	-			
39.	Write an algorithm to insert an ele	ement at the rear end of the queue.			

40. Give the difference between procedural programming and object oriented programming.

- 41. Explain defining member function outside the class definition with syntax and programming example.
- 42. Explain Function Overloading with programming example.
- 43. What is a Constructor? Write the syntax and programming example for default constructor.
- 44. What are the advantages of inheritance in C++?
- 45. Explain the features of database system.
- 46. Explain the various group functions in SQL
- 47. Define the following network devices.
 - a) MODEM
- b) HUB
- c) Repeater
- d) Bridge
- e) Router