Jain College, Jayanagar II PUC Mock Paper - II Jan 2019 Subject: II PUC Computer Science (41)

Duration: 3 hrs 15min	Max. Marks: 70
Part-A	
 I. Answer all the questions. Each question carries 1 mark. 1. What is motherboard? 	1×10=10M
2. Give the dual form of $X + \overline{Y} = 1$.	
3. Define data structure.	
4. Which type of data members are accessible outside a class.	
5. What is the use of new operator in C++?	
 Define cardinality. Define hackers. 	
8. What is chatting?	
9. Define e-commerce.	
10. Give an example for web browser.	
Part-B	
II. Answer any 5 questions. Each question carries 2 marks.	2×5=10M
11. State and prove associative law of addition.	
12. Write the complement of $X + \overline{X}Y = \overline{X} \ \overline{Z}$.	
13. Define function overloading and message passing.	
14. What is a destructor? Write the syntax for declaring a destructor function.	
15. Differentiate between get() and getline()	
16. Explain any 2 relational keys used in DBMS.	
17. Explain any 2 features of SQL.18. Mention the goals of networking.	
Part-C	
III. Answer any 5 questions. Each question carries 3 marks.	3×5=15M
19. Explain different types of power supply.	
20. Write logic circuit diagram for the expression Y=AB+ \overline{B} C+ (\overline{CA}) .	
21. Explain the memory representation of 2D array.	
22. Write a note on pointer with respect to arrays.	
23. What is a file? Name the stream classes supported by C++ for file input a	and output.
24. Explain the 3 levels of DBMS architecture.	
25. Define the following :	
a. URL	
b. Freeware c. OSS	
26. Give the features of DHTML.	
Part-D	
	7 5 6514

IV. Answer any7 questions. Each question carries 5 marks.

- 27. Using K-map simplify the following expression $F=\sum(m_0,m_2,m_4,m_8,m_9,m_{10},m_{11},m_{12},m_{13})$
- 28. Write an algorithm to arrange the given array elements in ascending order using insertion sort technique.

7×5=35M

29. Explain the applications of Queue.

JG

30. Write the differences between Procedural Programming and Object Oriented Programming.

- 31. Explain array of objects with example
- 32. Write a note on inline function.
- 33. Write the rules for writing a constructor function.
- 34. Write a C++ program to describe single level inheritance.
- 35. Give the different notations used in E-R diagram.
- 36. Write the differences between Order By and Group By with an example.
- 37. What is virus? Write the measures for preventing virus.
