JAIN COLLEGE

463/465, 18th Main Road, SS Royal, 80 Feet Road, Rajarajeshwari Nagar,
Bangalore - 560 098

Date: / /2018 ***SUBJECT: Computer Science***

II PUC

MOCK PAPER – I (2018)

Timings Allowed: 3H 15Mins. ***Total Marks70***

PART - A

Answer *all* the questions **10 X 1 = 10**

1. How many bits of data are transmitted in parallel part?
2. What is meant by proof by perfect induction?
3. Define data structure.
4. Define object.
5. What is meant by pointer?
6. Define domain.
7. What are cookies?
8. Expand SIM.
9. What is proprietary software?
10. What is web –scripting?

PART - B

Answer *any five* of the following **5 X 2 = 10**

11. What is a maxterm?
12. Simplify algebraically F(a, b) = a b+ a $\bar{b}$ + $\bar{a}$ $\bar{b}$
13. What is encapsulation?
14. Mention the features of parameterized constructor.
15. Differentiate between read( ) and write ( ).
16. List the data types supported by DBMS.
17. What is dual table?
18. Mention some applications of networking.

PART - C

Answer *any five* of the following **5 X 3 = 15**

19. Explain chipset of a motherboard with neat labeled diagram.
20. Give symbolic representation of NOR gate with truth table.
21. Differentiate between linear search and binary search.
22. Explain “self- referential structure “ with example.

23. What are the various file opening modes? Explain briefly.
24. Define data model. List the various types of data model.
25. What are the limitations of shareware?
26. Differentiate between HTML and XML.

PART – D

Answer *any seven* of the following **7 X 5 = 35**

27. State and prove De-Morgan's theorem.
28. Write an algorithm to PUSH an element into stack.
29. Write an algorithm for enqueue.
30. Explain the characteristics of OOP's.
31. Explain member function inside class definition and outside class definition.
32. Explain function overloading with example.
33. Explain destructors with syntax and example.
34. Explain single level inheritance with an example.
35. Explain the features of database management system.
36. Explain logical operators in SQL.
37. Explain various networking devices used.