



JAIN COLLEGE

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

Date: 2019-2020

SUBJECT: Computer Science

**II PUC
MOCK PAPER - I (2019)**

Timings Allowed: 3H 15Mins.

Total Marks 70

PART - A

Answer all the questions

10 X 1 = 10

1. What is motherboard?
2. Define logic gate.
3. Define queue.
4. What is meant by an array of objects?
5. Define pointers.
6. What is data mining?
7. What are hackers?
8. Expand HTTP.
9. Define e-commerce.
10. Expand DHTML.

PART - B

Answer any five of the following

5 X 2 = 10

11. Draw K-MAP for $\bar{X}\bar{Y} + \bar{X}Y$
12. Give dual of **a.** $1 + X = 0$ **b.** $X \cdot \bar{X} = 0$
13. What is a class? Give syntax for class declaration.
14. Define destructor. Give the operator used for destructors..
15. Mention the various types of files.
16. List the data types supported by DBMS.
17. Mention the various SQL constraints.
18. Mention some data transmission medium.

PART - C

Answer any five of the following

5 X 3 = 15

19. Explain Cache memory.
20. What is meant by proof by perfect induction? Give an example.
21. What are various operations performed on one dimensional array?
22. Explain new and delete operators with example.
23. What are the various file opening modes? Explain briefly.
24. Explain different users of database.

25. What are the advantages of e-commerce?
26. Differentiate between HTML and XML.

PART - D

Answer any seven of the following

7 X 5 = 35

27. Reduce using K-MAP $f(a,b,c,d) = \sum(0,1,2,3,5,7,9,11,13,15)$
28. Write an algorithm to sort an array using Insertion sort technique.
29. Write an algorithm for PUSH and POP operations.
30. Explain the characteristics of OOP's.
31. Explain member function **a.** Inside class definition **b.** Outside class definition.
32. Explain function overloading and mention the need for function overloading.
33. Explain the rules for writing constructor function.
34. What is inheritance? Give its advantages.
35. Explain the features of database management system.
36. Explain difference between order by and group by.
37. Explain network security in details.
