

IGI) SRI BHAGAWAN MAHAVEER JAIN COLLEGE

Vishweshwarapuram, Bangalore.

Mock Paper-1 (2017-18)

Course: II PUC

Subject: Computer Science

70

Max. Marks:

Duration: 3hrs

Part-A

I. Answer all the following questions. Each question carries 1 mark.

 $1x\ 10 = 10$

- 1. What is a Motherboard?
- 2. What are the values of the inputs to a three input OR gate if its output is 1?
- 3. Name the data structure which is called LIFO list.
- 4. Write one difference between private and protected access specifier.
- 5. What is memory leak?
- 6. Write an advantage of network model.
- 7. What is hacking?
- 8. Expand GPRS.
- 9. What are free softwares?
- 10. What is web hosting?

Part-B

II. Answer any 5 questions. Each question carries 2 marks.

 $2 \times 5 = 10$

- 11. State and prove associative law of addition.
- 12. Explain the principle of duality theorems in detail.
- 13. Define function overloading and message passing.
- 14. What is a default constructor? Is it possible to overload a default constructor?
- 15. Explain input and output operation in binary file.
- 16. Write the advantage and disadvantage of ISAM.
- 17. Explain order by clause with syntax and example.
- 18. Explain the types of servers in networks.

Part-C

III. Answer any 5 questions. Each question carries 3 marks

3x 5 = 15

- 19. Define (a) North Bridge (b) South Bridge (c) CMOS.
- 20. Realize AND, OR, NOT gates using NOR gate.
- 21. Write the applications of stack.
- 22. Write the operations that can be performed on pointer?
- 23. Explain the modes of opening a file.
- 24. Define (a) File (b) Table (c) Attributes.
- 25. Write the advantages of e-commerce.
- 26. What are the uses of server side scripting?

Part-D

VI. Answer any 7 questions. Each question carries 5 marks

5x7 = 35

- 27. Simplify the following $f(A, B, C, D) = \pi(1, 5, 6, 7, 11, 12, 13, 15)$ using K-map.
- 28. Write an algorithm them to perform linear search.
- 29. Write an algorithm to perform insertion sort.
- 30. Write the advantages of OOPs over earlier programming.
- 31. Write the syntax for member functions outside class definition with syntax and example.
- 32. What is an inline function? Write the advantages and disadvantages of inline function.
- 33. What are parameterized constructors? Explain the different ways of invoking parameterized constructors.
- 34. Explain the types of inheritance.
- 35. What is data warehouse? Explain the components of data warehouse.
- 36. Explain the comparison operators in SQL.
- 37. Write a note on virus.
