



M – 2018

Subject Code : 41 (NS)

0665303

COMPUTER SCIENCE

Time : 3 Hours 15 Minutes]

[Total No. of questions : 37]

[Max. Marks : 70

PART – A

Answer **all** the questions. Each question carries 1 mark.

(10 × 1 = 10)

- 1) What is microprocessor?
- 2) What is a logic gate?
- 3) Define sorting.
- 4) What is an object?
- 5) Name the pointer operator.
- 6) What is a record?
- 7) Expand HTTP.
- 8) Write any one application of computer network.
- 9) Mention any one web browser.
- 10) What is the use of HTML?

P.T.O.

**PART – B**

Answer **any five** questions. Each question carries **2** marks.

(5 × 2 = 10)

- 11) What is minterm and maxterm?
- 12) Prove $X \cdot (X + Y) = X$.
- 13) Mention any two applications of OOPs.
- 14) Define :
 - a) Constructors
 - b) Destructors.
- 15) Write the difference between text file and binary file.
- 16) What is Database Management System? Give an example of DBMS software.
- 17) Give the syntax and example of UPDATE command in SQL.
- 18) Define :
 - a) Client
 - b) Server.

PART – C

Answer **any five** questions. Each question carries **3** marks.

(5 × 3 = 15)

- 19) What is cache memory? Explain their types.
- 20) Realize AND, OR and NOT gates using NOR gate.

- 21) Write an algorithm to delete an element from one dimensional array.
- 22) Give the advantages of pointer.
- 23) Discuss the file mode parameters in C++.
- 24) Explain the advantages (features) of DBMS.
- 25) Write the advantages of e-commerce.
- 26) Discuss any three text formatting tags in HTML.

PART – D

Answer **any seven** questions. Each question carries **5** marks. **(7 × 5 = 35)**

- 27) Simplify the following Boolean function using K-map.
 $F(A,B,C,D) = \Sigma(1, 2, 3, 5, 7, 8, 9, 11, 13, 15).$
- 28) Write an algorithm to search an element using Binary search technique.
- 29) Give the applications of queues.
- 30) Explain the characteristics of OOPs.
- 31) What is the significance of using access specifiers? Explain any two access specifiers with example.
- 32) Explain friend functions with syntax and programming example.

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- 33) What is copy constructor? Explain with syntax and programming example.
- 34) What are the advantages of inheritance?
- 35) Explain the differences between manual data processing and computerized (electronic) data processing.
- 36) What is Data Definition Language? Give the functions of Data Definition Language.
- 37) What is computer virus? Write the symptoms (characteristics) of computer virus.
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