

B.Sc. (Part—II) Semester—III Examination

3S-COMPUTER SCIENCE/COMPUTER APPLICATION/INFORMATION TECHNOLOGY

(Object Oriented Programming with C++ and Web Technology)

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) **ALL** questions are compulsory.

(2) Question No. 1 carries **8** marks and all other questions carries **12** marks.

(3) Assume suitable data wherever necessary.

1. (a) Fill in the blanks :

(i) _____ is the way of binding data and its associated functions together.

(ii) _____ is a function used to destroy the object of class.

(iii) OSI stands for _____.

(iv) An external style sheet may be linked to an HTML document through _____ tag.

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(b) Choose the correct alternative :

(i) The variables which are declared within the class are called as :

(a) Objects

(b) Method of Class

(c) Data Members

(d) Public

(ii) The function which calls itself is called _____ function.

(a) Inline

(b) Overloaded

(c) Recursive

(d) Main

(iii) The tag is used to insert the image :

- (a)
- (b)

- (c) <A>
- (d) None of the above

(iv) Topology can be created by combining two or more types of topologies :

- (a) Network
- (b) Hybrid
- (c) Ring
- (d) LAN

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(c) Answer in one sentence :

- (i) What is object ?
- (ii) What is friend function ?
- (iii) What is LAN ?
- (iv) What is Style-Sheet ?

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2. (a) Explain the user defined data types in C++. Give example.

6

(b) Explain the structure of C++ Program.

6

OR

3. (a) Explain the following :

- (i) Variable
- (ii) Identifiers.

6

(b) Define object-oriented programming.

6

4. (a) Explain the relational and logical operators with example. 6
(b) What is function overloading ? Explain the concept of function overloading with suitable example. 6

OR

5. (a) Write a program to find factorial of given number using do-while loop. 6
(b) Explain if-else structure with suitable example. 6
6. (a) Explain :
(i) Data Encapsulation
(ii) Data Hiding. 6
(b) What is constructor ? What are its advantages and disadvantages ? 6

OR

7. (a) Explain defining the member function inside and outside the class with example. 6
(b) What is destructor ? How it can be defined ? 6
8. (a) Explain OSI model. 6
(b) Explain the concept and goal of networking. 6

OR

9. (a) Explain the star and hybrid networks with advantages and disadvantages. 6
(b) Explain difference between LAN and WAN. 6
10. (a) What is HTML ? What are the advantages of HTML ? 6
(b) Explain <MARQUEE> and <A> tag with example. 6

OR

11. (a) Explain the following tags with example :
(i) <HTML>
(ii) <HEAD>
(iii) <TITLE>. 6

(b) Write a HTML code for the following output :

Programming Languages :

(1) C

(2) C++

(3) Java

(4) C#.

6

12. (a) What is CSS ? Explain border and display properties of CSS.

6

(b) Explain the class and ID attributes with suitable example.

6

OR

13. (a) Explain font and color properties of CSS.

6

(b) What is style sheet ? Explain the application of a style-sheet.

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