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

COMPUTER SCIENCE/COMPUTER APPLICATION/INFORMATION TECHNOLOGY

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

(Old)

Time : Three Hours] [Maximum Marks : 80

Note :—(1) All questions are compulsory.

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

(3) Assume suitable data wherever necessary.

1. (A) Fill in the blanks :

(i) The variables declared inside a class are known as _____.

(ii) Assigning one or more function body to the same name is known as _____.

(iii) _____ is used to draw horizontal rules across the browser window.

(iv) _____ tag is used to insert the image within the text. 2

(B) Choose the correct alternatives :

(i) Which among the following is not an access specifier ?

(a) Protected (b) Public

(c) Private (d) Friend

(ii) _____ is used to access global variable instead of one defined as a local variable.

(a) < < (b) → *

(c) > > (d) : :

(iii) The destructor function name is preceded by _____ symbol.

(a) + = (b) ~

(c) * (d) ! =

(iv) _____ is used to unordered list tag.

(a) <OL> (b) <LI>

(c) <UL> (d) <LU> 2

(C) Answer in **one** sentence :

(i) What is constructor ?

(ii) What is encapsulation ?

(iii) What is HTML ?

(iv) What is tag ? 4

2. (A) Explain the concept of OOPS. 6

(B) Differentiate between OOP and POP. 6

OR

3. (A) Explain the symbolic constants with example. 6

(B) Write the advantages and application of OOPS. 6

4. (A) Explain the concept of Implicit and Explicit conversions. 6

(B) Explain Inline function with example. 6

OR

5. (A) Explain the concept of function calling and returning with example. 6

(B) Explain member dereferencing operator. 6

6. (A) Explain passing objects as argument with example. 6

(B) Explain the concept of constructors with example. 6

OR

7. (A) How member function can be defined in a class with example ? 6

(B) Explain the following :

(i) Data Abstraction.

(ii) Data Hiding. 6

8. (A) Explain Hybrid Network. 6

(B) Explain Ring Topology with its advantages. 6

OR

9. (A) Explain the following :

(i) LAN

(ii) WAN

(iii) Star topology. 6

(B) Explain the OSI model with suitable diagram. 6

10. (A) Explain the following tag with example :

(i)
 (ii) <LINK> (iii) <HR> 6

(B) Explain the basic structure of HTML with example. 6

OR

11. (A) Explain <COLSPAN> and <BLOCKQUOTE> tags. 6

(B) What is HTML ? Give the applications of HTML. 6

12. (A) What is stylesheet ? Write the advantages and applications of stylesheet. 6

(B) What is CSS ? Explain the properties of CSS stylesheet. 6

OR

13. (A) Explain the following properties of CSS :

(i) Height

(ii) Background

(iii) Font. 6

(B) Explain width, line and display properties of CSS. 6