

XEV (H-3) – BCA (6)

2 0 1 1

Full Marks : 100

Time : 3 hours

The questions are of equal value

Answer five questions including Question 1

Which is compulsory

1. Choose the correct answers :

- (a) **The manipulator endl is equivalent to**
- (i) **\ n**
 - (ii) **\ t**
 - (iii) **\ b**
 - (v) **None of these**
- (b) **Which of the function accepts string with blank spaces?**
- (i) **cin**
 - (ii) **scanf()**
 - (iii) **getline()**
 - (iv) **None of these**
- (c) **Which of the operators can be overloaded in C++?**
- (i) **..**
 - (ii) *****
 - (iii) **? :**
 - (iv) **=**
- (d) **A non- member function that can access the private data of a Class is known as**

- (i) friend function
 - (ii) static function
 - (iii) library function
 - (iv) inline function
- (e) The eof () function returns_____ value when end of file is detected.
- (i) zero
 - (ii) non-zero
 - (iii) negative
 - (iv) null
- (f) The default value of reference type in Java is
- (i) false
 - (ii) Zero
 - (iii) One
 - (iv) null
- (g) Which one is not the keyword in Java?
- (i) Default
 - (ii) Import
 - (iii) Main
 - (iv) This
- (h) Which type of inheritance is not supported by java?
- (i) Single
 - (ii) Multiple
 - (iii) Multilevel
 - (iv) Hierarchical
- (i) Which one is not supported by java?
- (i) Package
 - (ii) Operator overloading
 - (iii) Interface
 - (iv) Applet
- (j) Makes Java platform independently.
- (i) JVM
 - (ii) Applet
 - (iii) Interface
 - (iv) None of these

2.
 - (a) **What is Java? Discuss the features of Java in detail.**
 - (b) **What are the difference between Java and C and Java and C++?**
3.
 - (a) **What is class? How to define class and create objects in Java?**
 - (b) **What is constructor? What are its special properties?**
 - (c) **Discuss the different access modifiers in Java.**
 - (d) **Write is interface ? How to extend and implement it ?**
4.
 - (a) **What is interface ? How to extend and implement it?**
 - (b) **Discuss method overriding.**
 - (c) **What is applet ? Discuss the life cycle of an applet.**
 - (d) **Design an applet to print Hello Java. Also write HTML code to display the applet.**
5. **Write notes on the following :**
 - (a) **JVM**
 - (b) **Wrapper class**
 - (c) **Applet Tag**
 - (d) **Multithreading.**
6.
 - (a) **What do you mean by animation? Write the names of popular S/W package used for animation.**
 - (b) **What are the uses of Artificial intelligence (AI) in computer science and robotics?**
 - (c) **Explain the dedicated computers and ATM.**
 - (d) **What is the role of data communication and networking in business?**
7.
 - (a) **What is OOP? Discuss the advantage of using it.**
 - (b) **Explain key features of OOP.**
 - (c) **What is object? How to define it in C++? Explain with suitable example.**

- (d) **Write a program in C++ to find the area of rectangle using OOP's concept.**
- 8.
- (a) **What is constructor and destructor in C++? What are its advantages?**
 - (b) **Discuss default constructor and parameterized constructor with suitable example.**
 - (c) **Discuss operator overloading and its advantage.**
 - (d) **Write a program to overload increment operator ++.**
- 9.
- (a) **What is file ? What are the file stream classes? Explain.**
 - (b) **Describe the syntax of open () function with its arguments.**
 - (c) **Discuss the different modes of file opening in detail.**
 - (d) **Write a program to create a text file and display its content on the screen.**
10. **Write short notes on the following :**
- (a) **Recursion**
 - (b) **Virtual function**
 - (c) **New and delete operator**
 - (d) **Function overloading.**
