

**ESSENTIAL OF INFORMATION TECHNOLOGY**

Paper-PC-CS-305A

Opt. (II)

Time : Three Hours]

[Maximum Marks : 75]

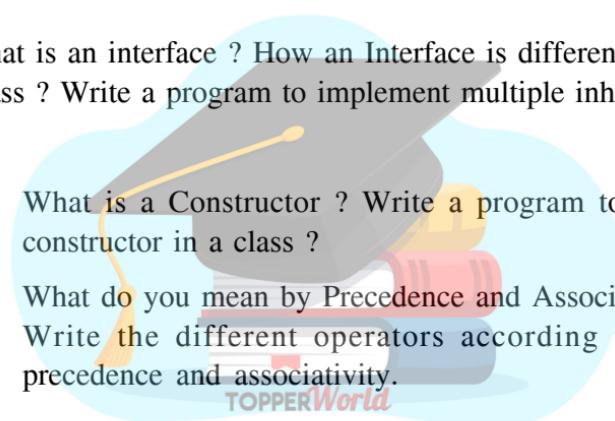
**Note :** Attempt *five* questions by selecting at least *one* question from each Unit.

**UNIT-I**

1. What is an interface ? How an Interface is different from a Class ? Write a program to implement multiple inheritance. 15

2. (a) What is a Constructor ? Write a program to inherit constructor in a class ? 10

- (b) What do you mean by Precedence and Associativity ? Write the different operators according to their precedence and associativity. 5

The logo features a stylized blue and grey abstract shape resembling a brain or a gear. Inside this shape, there is a yellow lightbulb-like icon with a yellow beam of light. Below the main shape is a red book-like object with a yellow ribbon. The text "TOPPERWorld" is written in a red, sans-serif font at the bottom of the logo.  
TOPPERWorld**UNIT-II**

3. (a) Why Applets are Virus Free? Explain the life cycle of an Applet. 7

- (b) Explain constructors for the following :

- (i) Buttons.
- (ii) Check Box.
- (iii) Text Field.
- (iv) Tables.

(4×2=8)

4. What is a container ? Write a program in Java to add various items in the container ? 15

### **UNIT-III**

5. Explain Servlet packages, classes and interface for servlet programming in brief. 15
6. Explain GET and Post methods for handling HTTP request and response with example. 15

### **UNIT-IV**

7. Differentiate short notes on :
- (a) List.
  - (b) Set.
  - (c) Collection.
  - (d) Tree. 15
8. (a) What are JDBC component, explain in detail ? 7
- (b) What are the steps to connect to database in Java ? Write various steps for JDBC Connectivity. 8
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