Roll No. .... Total Pages : 2

BT-5/D-20

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

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)

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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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