B.C.A. (Part-III) EXAMINATION, 2023-24

[Fifth Semester]

Paper : I

(BCA 501: Internet & Java Programming)

1153

Time : Three Hours] [Maximum Marks : 70

Note: (i) Answer **five** questions in all.

(ii) Question No. **1** is **compulsory**.

(iii) Answer remaining **four** questions, selecting **two** from each Section **A** and **B**.

(iv) All questions carry equal marks.

1. Answer all parts of the following :

(a) What do you understand by Internet and Internet Services ?

(b) Explain the various data types of Java.

(c) Explain Java Applet and Application.

(d) What is meant by AWT ?

Section-A

2. Explain Methods and Classes in Java with Suitable examples of each.

3. Explain how connectivity to remote database is achieved in Java, Support your answer with sample code.

4. Give the detailed description about life cycle of a servlet.

5. Write a program in Java to input an integer array of 10 dements and return the factorial of each elements present.

Section-B

6. (a) Explain Inheritance and its types available in Java.

   (b) Write a program to demonstrate multiple inheritance in Java.

7. (a) What is error and exception handling in Java. How you would handle exception using try and catch ?

   (b) Clearly explain JDBC/ODBC bridge in Java.

8. (a) Discuss about below controls of Java :

   Text fields, Radio Buttons, Program Bar, Menu and Toolbar.

   (b) Write a program in Java to Print even length words in a string.

   I/P : S = 'This is a java language'

   O/P : This

          is

         java

         language

9. Write notes on any **two** of the following :

   (a) Conditional operators.

   (b) Packages in Java

   (c) Satellite Communications

   (d) JSP

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