U-2415

BACHELOR OF COMPUTER APPLICATION
BCA - III Year Examination, 2021

PROGRAMMING WITH JAVA

Paper - V (BCA-305)

Time allowed : **Three Hours**

Maximum Marks : **75**

Attempt five questions in all, selecting one question from each Unit. All questions carry equal marks.

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UNIT - I

1 (a) Java is Indepedent Langauge platform Justify this statement.

(b) Explain the type conversion rules for basic data types in Java.

2 (a) Explain all the features of Java.

(b) Explain the concept of Array in Java.

(c) Write a program to sort an Array in Java.

UNIT - II

3 (a) Explain the meaning and purpose of the following keywords:

(i) abstract

(ii) final

(ii) throw

(iv) catch

(b) Explain how interface provides multiple inheritance like functionality in Java ?

4 (a) What is abstract class ? How it is different from simple class ?

(b) Explain the concept of Wrapper classes with suitable example.

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UNIT - III

5 (a) What is the difference between string class and string buffer class ?

(b) Write a short note on any two string functions with example.

6 (a) Why append method is not available in string class ?

(b) Write a Java code to change upper case to lower case in a given string.

UNIT - IV

7 (a) How does multi-threading in Java helps to enhance the efficiency of a system ? Explain with suitable example.

(b) Write a Java program for handling Mouse click events.

8 (a) Explain the concept of thread synchronization in Java with suitable example.

(b) Explain the concept of exception handling in Java using a suitable example.

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UNIT - V

9 (a) What is an Applet in Java ? Explain the life cycle of an Applet in Java.

(b) What is the difference between paint and repaint method.

10 What is the AWT? Discuss various features of AWT with suitable examples.

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