

BCA-16

June – Examination 2022

BCA (Part III) Examination

Programming in Java

Paper : BCA-16

Time : 1½ Hours]

[Maximum Marks : 70

Note :- The question paper is divided into two Sections A and B. Write answers as per the given instructions.

Section-A

4×3½=14

(Very Short Answer Type Questions)

Note :- Answer any *four* questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries 3½ marks.

1. (i) What is JVM ? Discuss its role.
- (ii) Why Java is known as robust language ? Explain.
- (iii) What is Applet ?
- (iv) Name any *four* built-in package available in Java.
- (v) Explain any *two* string functions in Java with suitable example.
- (vi) Name any *four* data types in Java with their size.
- (vii) List any *four* features of Java.
- (viii) What do you mean by Data Encapsulation ? Give example.

Section–B **4×14=56**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 14 marks.

2. What do you mean by Thread ? Describe how Java supports multithreading with suitable example.

3. Explain various conditional statements supported in Java with suitable example.
4. Describe the difference between method over-riding and method over-loading with suitable example.
5. How multiple inheritance is supported in Java ? Explain with suitable examples.
6. What is the role of packages in Java ? How user-defined packages can be used and created in Java ? Explain with example.
7. Describe a program structure of a simple Java program with suitable example.
8. Write a program in Java to implement any sorting algorithm using array. Also explain with suitable example.
9. How Java supports Object Oriented Programming ? Justify with support of example.