

BCA-16

June – Examination 2024

BCA (Part III) Examination

PROGRAMMING IN JAVA

Paper : BCA-16

Time : 3 Hours]

[Maximum Marks : 70

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

Section-A

7×2=14

(Very Short Answer Type Questions)

Note :- Answer all 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 2 marks.

1. (i) Define Object and Class.
- (ii) What is Dynamic Binding ?

- (iii) What is a Run time error ?
- (iv) Define Polymorphism.
- (v) Give an example of Inheritance.
- (vi) What is Multithread ?
- (vii) What is JDK ?

Section-B **4×7=28**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 7 marks.

2. Explain the different features of Java.
3. Write the difference between Procedural and Object-Oriented Languages.
4. Explain Java Virtual Machine (JVM).
5. Explain different constants with examples in Java.
6. What is Switch Case ? Give an example.
7. Explain Method Overloading.
8. Explain the difference between Applet and Application.
9. What are J Frame and J Applet ? Explain with methods.

Section-C **2×14=28**

(Long Answer Type Questions)

Note :- Answer any *two* questions. You have to delimit your each answer maximum up to **500** words. Each question carries 14 marks.

10. What are the different types of operators in Java ? Explain with an example.
11. Explain the iteration statement and its types with an example.
12. Write the advantages of multithreading over multi-tasking and draw the thread life cycle.
13. Explain different applet classes in Java.