

# BCA-16

December – Examination 2022  
**BCA (Part III) Examination**  
Programming in Java  
Paper : BCA-16

*Time : 3 Hours ]*

*[ Maximum Marks : 70*

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*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) What is JVM ?
- (ii) What is Applet ?
- (iii) What is Byte Code ?

- (iv) Why do we need data types ?
- (v) What is Type Casting ?
- (vi) What is the importance of static variable ?
- (vii) What is the use of finally in java ?

**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. What is use of 'Public', 'Private' and 'Protected' member access ? Explain with example.
- 3. Write a program to find sum of all the numbers stored in an array.
- 4. What do you mean by method overloading ? Explain with example.
- 5. Why Java is Robust Language ? Explain.
- 6. What do you mean by looping ? Explain various categories of looping controls in java.
- 7. Write a short note on Wrapper Class.
- 8. Explain Logical (Boolean) operators in Java with example.

- 9. What is an array ? Explain one dimensional and two dimensional array with example.

**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 JAVA packages ? Explain the different types of packages in java. How to create a user defined package ? Explain with examples.
- 11. What do you mean by Thread ? Also, explain its life-cycle.
- 12. Define Inheritance. Explain the various forms of inheritance and write a program to implement single inheritance.
- 13. What is Swing in Java ? Explain hierarchy of swing classes.