

BCA-16
June - Examination 2019
BCA Pt. III Examination
Programming in JAVA
Paper - BCA-16

Time : 3 Hours]

[Max. Marks :- 70

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

Section - A

7 × 2 = 14

(Very Short Answer Questions)

Note: Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

- 1) (i) Explain JUM in brief.
- (ii) Write down data types used in Java.
- (iii) Define instance variable.
- (iv) What are the access modifiers used in Java.
- (v) Define the final keyword.
- (vi) Explain the difference between classes and objects?
- (vii) What in multi threading, explain.

Section - B $4 \times 7 = 28$

(Short Answer Questions)

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

- 2) Write down all features of Java. Explain any five features in brief.
- 3) Explain the different control flow statements available in Java.
- 4) What do you mean by method overloading. Explain with example.
- 5) What are the packages? Name all inbuilt packages of Java API.
- 6) Explain various types of operators used in Java?
- 7) What is super keyword? Explain its use in Java.
- 8) Compare and contrast abstract class and interface?
- 9) Demonstrate the working of nested try block with example.

Section - C $2 \times 14 = 28$

(Long Answer Questions)

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

- 10) What do you mean by a applet? Explain the life cycle of an applet.
- 11) Define inheritance? Explain the various forms of inheritance and write a program to implement single inheritance
- 12) What is a constructor? Mention the properties and illustrate example to overload constructor.
- 13) What is a swing in Java? Explain hierarchy of swing class in Java.
