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17/76-C

B.C.A. (III Semester) Examination, 2017

Fourth Paper

(BCA-304 : Java Programming)

Time : Three Hours ] [ Maximum Marks : 70

Note : Attempt questions from all sections as per instructions.

Section - A

(Very Short Answer Questions)

Note: Attempt all parts of this question. Give answer of each part in about 50 words.

$$1\frac{1}{2} \times 10 = 15$$

1. (i) How does Java achieve platform independence?
- (ii) Write the syntax of prefix and postfix increment operator and write the difference between them.
- (iii) What are the commands used to compile and run the Java programs.

P.T.O.

(2)

- (iv) What do you mean by Wrapper Class?
- (v) Explain super( ) keyword with example.
- (vi) Explain the life cycle of Thread( ).
- (vii) What is native code?
- (viii) What is the difference between String and String Buffer Classes.
- (ix) What is AWT?
- (x) How does Java Applet differ from Java Applications.

Section - B

(Short Answer Questions)

- Note : Attempt all questions. Give answer of each question in about 200 words.  $7 \times 5 = 35$
2. Explain Java data types with example.

OR

- Discuss control structures in Java.
3. Write a program to find minimum of n numbers stored in an array.

OR

- Explain concept of packages in Java.

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4. What is Exception? Discuss Exception handling in Java.

**OR**

Discuss concept of Threads in Java. Explain Thread priorities.

5. Explain the term byte stream and character stream.

**OR**

How Java can be used to store/retrieve data from a database? Explain.

6. Use Java AWT program to add two numbers.

**OR**

What is event delegation model? What are its basic components?

### Section - C

#### (Long Answer Questions)

**Note:** Attempt any **two** questions. Give answer of each question in about **500** words.

$$10 \times 2 = 20$$

7. Explain life cycle of thread with an example.
8. Discuss Applet life cycle. How Java Applets execute.

9. What do you mean by inheritance? Discuss various inheritance supported in Java.
10. Explain Polymorphism in Java. How it is implemented.
11. What are file stream? Explain all file stream with suitable example.

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