## 1487/V

## B.C.A. (PART-III) EXAMINATION, 2022-23

(Fifth Semester)

0606

(BCA 501: INTERNET & JAVA PROGRAMMING)

Paper: I

Time: Three Hours ] [Maximum Marks: 70

Note: (i) Answer Five Questions in all.

- (ii) Question No.1 is Compulsory.
- (iii) Answer remaining Four questions, selecting

  Two from each Section A and B.
- (iv) All questions carry equal marks.
- 1. Answer <u>all</u> parts of the following in brief:
  - (a) Briefly explain the following:
    - (i) JDK
    - (ii) JVM
    - (iii) JRE

- (b) What is exceptional handling in Java? Explain with an example.
- (c) Write about the purpose of 'final' keyword.

  Can we inherit a method referred as 'final'?
- (d) Write a Java program to reverse the given string.

## **SECTION-A**

- 2. What is Java Applet and its life cycle? Write a simple example to execute the applet by HTML file.
  - 3. What is runtime polymorphism in Java? Explain with an example.
- 4. Briefly explain the use of following keywords in Java with example.
  - (i) Final
  - (ii) This
  - (iii) Super

5. What is Java AWT? Explain AWT hierarchy and method to create Java AWT with an example.

## **SECTION-B**

- 6. (a) What is method overloading? How it is different from method overriding?
  - (b) What is hierarchical in heritance? Explain with an example.
- 7. (a) What are the different types of drivers in Java database connectivity? What are the required steps to establish database connectivity in Java?
  - (b) What is multithreading? What are the advantages of multithreading?
- 8. (a) What is Servlet and its life cycle? How it is better than CGI?
  - (b) What is JSP and its life cycle? How it is better than servlet?

- 9. Write notes on any two of the following:
  - (i) RMI
  - (ii) Cookies
  - (iii) Java swing

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