

**Code : 303303**

**( 2 )**

**BCA 3rd Semester Exam., 2020**

**JAVA PROGRAMMING**

Time : 3 hours

Full Marks : 60

**Instructions :**

- (i) The marks are indicated in the right-hand margin.
- (ii) There are **SEVEN** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question Nos. **1** and **2** are compulsory.

**1. Answer any six questions :** 2×6=12

- (a) List out Java keywords.
- (b) Write about one of the SELECTION statements of Java.
- (c) List out the properties of static variables and methods.
- (d) Write about NEW operator.
- (e) List out thread properties.
- (f) List out some of the sources of errors in programming.

- (g) What is byte code in Java?
- (h) Define an applet.
- (i) What is a package?
- (j) What is class path?

**2. Answer any three of the following :** 4×3=12

- (a) Define an array and explain one-dimensional arrays in Java with an example.
- (b) Define a class in Java.
- (c) Explain the use of command-line arguments.
- (d) Explain about deadlock.
- (e) Explain thread priority.

**3. Explain the concept of dynamic method dispatch with an example program.** 12

**4. Explain the following :** 12

- (a) Try and catch
- (b) Throw
- (c) Finally

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5. Define the method overloading. Write a program using the concept of method overloading. 12
6. Explain the life cycle of an applet. 12
7. Define inheritance. Give various forms of inheritance and write a Java program on single inheritance. 12

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