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Total No. of Pages : 02

Total No. of Questions : 07

BCA (2013 & Onward) (Sem.-5)**PROGRAMMING IN JAVA****Subject Code : BSBC-502****Paper ID : [B1155]****Time : 3 Hrs.****Max. Marks : 60****INSTRUCTION TO CANDIDATES :**

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **SIX** questions carrying **TEN** marks each and a student has to attempt any **FOUR** questions.

SECTION-A**Q1. Answer briefly :**

- a) Write the structure of a typical Java program.
- b) How command line arguments are passed in a Java program?
- c) What is the difference between a class and an object?
- d) How arrays are declared in a Java program?
- e) What are parameterised constructors?
- f) What are overriding methods?
- g) When do we use protected access specifier?
- h) What is an Applet? How is an applet different from an application?
- i) What is Inheritance? What are the different forms of inheritance in Java?
- j) What is CLASSPATH?

SECTION-B

- Q2. Discuss the salient features of Java programming language. How Java is different from C and C++?
- Q3. What are the various operators available in Java? Discuss each with an example.
- Q4. a) What is Interface in Java? How is interface implemented?
- b) What is an abstract class? What is its use in Java?
- Q5. What is an Exception? What are the types of exceptions? Discuss in detail exception handling in Java.
- Q6. Create an applet that receives three numeric values as input from the user and then displays the largest of these on the screen. Write a sample HTML page to include this applet.
- Q7. Explain with examples the various methods supported by the Graphics class.