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Total No. of Questions: 07

BCA (2011 & Onward) (Sem. – 5) PROGRAMMING IN JAVA

M Code: 70629 Subject Code: BSBC-502 Paper ID: [B1155]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS 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 students have to attempt any FOUR questions.

SECTION A

- 1. Briefly answer the following:
 - a) Differentiate between Java and C++.
 - b) What do you mean by constructor overloading?
 - c) What are Final variables and methods?
 - d) What are Zagged arrays?
 - e) What are Vectors in Java? What is its purpose?
 - f) Explain the term polymorphism?
 - g) What is an abstract class?
 - h) Why Java is called platform independent?
 - i) What is Java virtual machine?
 - j) What is a Package? What is the use of Packages in Java?

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SECTION B

- 2. What is object-oriented programming? Discuss the basic concepts of object-oriented programming.
- 3. What are the various looping statements available in Java? Discuss any one with suitable example.
- 4. Create a Date class in Java having day, month and year data members. Create constructors for initializing data members, functions for validating date, getting values of data members and displaying the date.
- 5. Define an Applet. How is an Applet different from an application? Describe the lifecycle of an applet.
- 6. Explain with examples, the various graphics methods supported by AWT. How color of an object can be changed?
- 7. Describe the Delegation Event Model. What are the Event Sources and Event Listeners? Explain with an example Java code, how various mouse events are handled?

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