

Roll No.

[illegible]

Total No. of Questions : 07

BCA (2011 & 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

1. Write briefly :

- Define Polymorphism. How is it implemented in Java?
- Briefly discuss the history of Java.
- What is Java Virtual Machine?
- What is a constructor? What is the use of constructors?
- What is the use of Final?
- What are wrapper classes?
- What is an Interface in Java?
- What is a Package? How is a package created in Java?
- What are abstract classes?
- What do you mean by method overloading?

SECTION-B

2. What is Object-Oriented Programming? Discuss the benefits of OOP.
3. What are the various data types available in Java? Explain.
4. What is Inheritance? What are the different forms of inheritance in Java? Explain with suitable examples.
5. What is an exception? How is it different from an error? Is it possible to include your own exception in a program? Explain with suitable code for the purpose. Also discuss the use of finally block.
6. What do you mean by a Java applet? How is an applet different from an application? Discuss the life cycle of an applet.
7. Explain with examples the various graphics methods supported by AWT.