

IT201

Roll No. ....

[ETD]

END SEMESTER EXAMINATION : NOV.–DEC., 2014

## JAVA PROGRAMMING

Time : 3 Hrs.

Maximum Marks : 70

**Note:** Attempt questions from all sections as directed.

### SECTION – A (30 Marks)

Attempt any five questions out of six.

Each question carries 06 marks.

1. Explain why Java is considered as the best language for Internet Applications.
2. What are command line arguments ? How are they useful ?
3. In Java only a single class can be extended. If user wants to extend more than one class, how can this be achieved ?
4. What is the use of finalize() method And Garbage collector in Java.

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5. What is an event ? Explain different components of an event.
6. Explain the following concepts with an example of each :
- (i) Abstraction
  - (ii) Inheritance
  - (iii) Encapsulation

**SECTION – B****(20 Marks)***Attempt any two questions out of three.**Each question carries 10 marks.*

7. Explain usage of final with example.
8. What is the difference between an application and an applet ? Explain briefly the life cycle of an Applet. What are the basic steps for creating an applet ?
9. (a) What is an exception ? Explain, with an example, how exceptions are handled in Java. Discuss the use of try, catch and finally blocks. Can we have more than one catch blocks with one try block.  
(b) Differentiate between checked and unchecked exceptions.

**SECTION - C****(20 Marks)***(Compulsory)*

10. (a) What is a Thread ? Which Interface must be implemented by all threads ? What are the ways to create a thread ?
- (b) Describe the complete life cycle of a Thread.
- (c) How will you start and stop a thread ? How do we set priorities for threads ?
- (d) What is synchronization ? When it is used ?

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