

IT201

Enroll. No.

[ETD]

END SEMESTER EXAMINATION :

APRIL – MAY, 2015

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. List and explain the features of Java.
2. Write a Java program to find factorial of a given number using command line arguments.
3. Give a detailed explanation of packages in Java.
4. What is multithreading ? Explain any two advantages of multithreaded programs.
5. Explain the following terms with respect to exception handling.

P.T.O.

(390)

6. Explain the meaning of the following terms:

- (a) Method overriding
 - (b) Wrapper classes

SECTION – B (20 Marks)

Attempt any two questions out of three.

Each question carries 10 marks.

7. (i) Create a class with one integer instance variable. Initialize the variable using :

- (a) Default constructor
 - (b) Parameterized constructor (5)

(ii) Write a program to demonstrate the following:

- (a) To convert lower case string to upper case.
(b) To compare two strings. (5)

8. (i) Describe the levels of access protection available for packages. (3)

- (ii) Explain the following methods related to thread.
(a) wait() (b) sleep() (2)

(iii) Which is the alternative approach to implement multiple inheritances in Java ? Explain with an example. (5)

9. (i) List Applet initialization and termination methods. Write a Java Applet that sets the background color to cyan and foreground color to red and outputs a string message “A simple Applet”. (5)

(ii) What are Layout managers ? Discuss different types of layout managers used in JAVA. (5)

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

10. (i) Define an interface using JAVA that contains a method to calculate the perimeter of an object. Define two classes circle and Rectangle with suitable fields and methods. Implement the interface “perimeter” in these classes. Write the appropriate main() method to create object of each class and test all the methods. (10)

P.T.O.

- (ii) What are the uses of exception handling in JAVA ? Write a program using Java that handles an exception “Entry of negative age of a person”. (10)

