

[No. of Printed Pages – 4]

IT201

Enrol. No. ....

[ET]

END SEMESTER EXAMINATION : APRIL-MAY, 2019

### 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. Why is java known as platform independent language?  
Why JAVA is important to the Internet?
2. Explain the architecture of an applet with the help of an example.
3. Explain the importance of event handling mechanism in applet programming. What is delegation event model?
4. When do we declare a method or a class final? Give an example to explain.

P.T.O.

5. What is multiple inheritances? Write a program to explain implementation of multiple inheritance in java.
6. Describe the following :
- (a) Super Keyword (2)
  - (b) Finalizer method (2)
  - (c) ByteCode (1)
  - (d) String Buffer Class (1)

**SECTION – B (20 Marks)**

*Attempt any two questions out of three.*

*Each question carries 10 marks.*

7. How do we set the priorities of a thread? Explain with the help of an example.
8. (a) Develop an applet that receives three numeric values as input from the user and then displays the largest of the three on the screen. (5)
- (b) Briefly explain the significance of J Applet with the help of an example. (5)

9. (a) Write a program to extract a portion of a character string and print the extracted string. Assume that  $m$  characters are extracted, starting with the  $n$ th character. (5)
- (b) Write a program to copy the contents of one file to another file using file stream classes. (5)

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

10. (a) Write a program to draw a polygon using applets. (5)
- (b) Differentiate between Flow layout and Border Layout. Give examples. (5)
- (c) Create a class Box in a package Mypackage with its length, breadth and depth. Provide appropriate constructor(s), which pass value of length, breadth and depth externally to constructor. Provide methods to calculate volume and to display all information of Box. Design different class TestBox class which is not in Mypackage package, and

P.T.O.



which will contain main function. From this main function, create 2 Box objects by taking all necessary information. (10)