

Code: CS3T5

**II B.Tech - I Semester–Regular/Supplementary Examinations
November 2016**

**OBJECT ORIENTED PROGRAMMING THROUGH
JAVA
(COMPUTER SCIENCE AND ENGINEERING)**

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks

11x 2 = 22 M

1.
 - a) What is the task of main method in java program?
 - b) “Java is Object Oriented Language”. Give one reason supporting the given argument.
 - c) Give the difference between == operator and equals() method.
 - d) State the purpose of static block.
 - e) When do we declare a method or class final?
 - f) What is the purpose of “new” operator?
 - g) A class member should be accessed only by classes in the same package and its subclasses. How it would be declared?
 - h) Define the term try and catch.
 - i) What happens when we make a static method as synchronized?
 - j) Define Event and Event Source.
 - k) Why swing is called light weight?

PART – B

Answer any **THREE** questions. All questions carry equal marks.

3 x 16 = 48 M

2.

a) Mention the difference between an object and a class. 8 M

b) List and explain any five string functions with an example program. 8 M

3.

a) What is the difference between abstract class and interface class? 8 M

b) Explain with an example that how multiple inheritance is achieved in java. 8 M

4.

a) Define package. What are the benefits of package. Explain java API Packages? 8 M

b) Explain the importance of hashCode() and equals() methods. 8 M

5.

a) Write a java program to create thread that displays odd numbers starting from 1 to 100. 8 M

b) Is it essential to catch all types of exceptions? Justify your answer. 8 M

- 6.
- a) Write a program to create a screen which contains three check boxes. (DOS, LINUX, and WINDOWS) and displays the selected items in a textbox. 8 M

 - b) Write a short notes on JFrame and JButton. 8 M