

Code: CS3T5

**II B.Tech - I Semester – Regular/Supplementary Examinations
November - 2019**

**OBJECT ORIENTED PROGRAMMING THROUGH
JAVA
(COMPUTER SCIENCE & 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 difference between object-oriented programming language and object-based programming language?
- b) What is the difference between constructors and other methods?
- c) What are super and sub classes?
- d) Write the difference between interfaces and abstract classes.
- e) What do you mean by static import?
- f) What is Autoboxing?
- g) List any three common run time errors.
- h) Define thread priorities.
- i) What are the limitations of AWT?
- j) Write the use of layout manager and list different types of layout managers available in java.
- k) Define JLabel and JMenu.

PART – B

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

3 x 16 = 48 M

2. a) Explain the various modes of usage of “this” keyword with a sample Java program. 5 M
- b) Write a java program to find matrix multiplication. 6 M
- c) Write the usage of StringTokenizer class with example program. 5 M
3. a) What is inheritance? How will you call parameterized constructor and over rided method from the parent class in sub class. 8 M
- b) Develop a Library interface which has drawBook(), returnBook() (with fine), checkStatus() and reserveBook() methods. All the methods tagged with public. Implement the interface with appropriate code. 8 M
4. a) What is a package? How to create package? Explain with suitable example. 8 M
- b) Explain hashCode() and equals() in Java with example program. 8 M

5. a) Explain the exception handling mechanism with an example. 8 M
- b) With illustrations, explain thread states and interrupting threads. 8 M
6. a) Write a stand-alone AWT based application which creates a frame window that responds to mouse clicks and key strokes. 8 M
- b) Write a JAVA program to simulate the grid layout with calculator. 8 M