

Code: EC6T6FE-D, EE6T6FE-C, ME6T6FE-G

III B.Tech-II Semester–Regular/Supplementary Examinations–March 2019

OOPS THROUGH JAVA
(COMMON FOR ECE, ME, EEE)

Duration: 3 hours

Max. Marks: 70

PART – A

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

11 x 2=22 M

1.
 - a) Differentiate primitive and non-primitive data types.
 - b) Write syntax and declaration for 1-D and 2-D arrays?
 - c) Define this keyword?
 - d) What is the use of Final keyword?
 - e) What is the use of super keyword?
 - f) List out the states in life cycle of a thread.
 - g) Differentiate between throw and throws in exception handling.
 - h) What is Wrapper Class?
 - i) List various components in AWT.
 - j) List any two differences between AWT and Swing.
 - k) Define Package with Example.

PART – B

2. a) Describe the following OOP's principles with suitable Examples.
- i) Class inheritance
 - ii) Abstraction of data and behaviour
 - iii) Encapsulation
 - iv) Polymorphism
- 8 M
- b) Describe and Differentiate between String Builder and String Buffer in java? 8 M
3. a) Write code to create two classes namely calculation and my_calculation. Use extends keyword to inherit the methods addition, subtraction, multiplication of calculation class. 8 M
- b) Write at least 4 differences between class and abstract class. 8 M
4. a) Explain the creation and importing of packages with suitable examples. 8 M
- b) Why we need wrapper class in java with a suitable example? 8 M

5. a) Explain the usage of try, catch, throw, throws and finally in Exception handling? 8 M
- b) Write a program that creates Three Threads named T1, T2 and T3 in which each thread has to perform three different types of arithmetic operations simultaneously. 8 M
6. a) Summarize all methods available for Keyboard Listener with example. 8 M
- b) Write a JAVA program to create login page with two labels, two textboxes and one push buttons (submit) using AWT or Swing. 8 M