Code: EC5T6FE1, EE5T6FE4, ME5T6FE1

## III B.Tech - I Semester – Regular Examinations - November 2015

## OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(Common to ECE, EEE, ME)

Duration: 3 hours  Answer any FIVE questions. All questions carry equal marks		
	Write short notes on the following.  i) Scope of variables  ii) Data Types in JAVA	4 M 4 M
b)	Describe in detail the notion of class with an example.	6 M
	Write short notes on the following.  i) Garbage collection  ii) Wrapper classes	4 M 4 M
b)	Using String class, describe the concept of immutable classes and how objects of that classes work differently	
3 a)	Describe in detail the concept of abstract classes with code example.	a 8 M

b) Show and explain with example, how one can overrice	de the
methods of base class in derived class?	6 M
4 a) Write short notes on:	
i) Differentiate abstract class and interface	4 M
ii) Extending Interfaces	4 M
b) Write a package with a simple Complex Number class	
& use it in another class that has main in it outside the	
package. Explain.	6 M
5 a) Explain Exception Handling in Java with an example	. •
program demonstrating try, catch and passing on excepthrough stack unwinding.	ptions 8 M
	O 1 <b>V1</b>
b) Describe in detail the life-cycle of a Thread in JAVA.	6 M
6 a) Describe in detail Byte Streams, Character Streams and	d
Buffered Streams and give one example class in java.io	)
package for each of these.	8 M
b) Write a program to read from a file and print the count	of
words in the file.	6 M
7 a) Write short notes on:	
i) Limitations of AWT	4 M
ii) Border layout	4 M

- b) Write a simple program that illustrates the use of Listeners for implementing delegation event model.

  6 M
- 8 a) Explain with an example "queues" in data-dictionary.

8 M

b) Describe the importance of hashcode and equals methods in Object class.

6 M