Code No: **R42028** **R10** **Set No. 1**

IV B.Tech II Semester Regular Examinations, April/May - 2014

OOPS THROUGH JAVA

(Electrical and Electronics Engineering)

Time : 3 hours **Max. Marks: 75**

Answer any Five Questions

All Questions carry equal marks

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1	a)	Differentiate between overloading and overriding	[8]
	b)	What is instance? How it is different from class?	[7]
2	a)	What are the rules for constructors? Explain about constructor overloading with examples	[8]
	b)	What is recursion? Write a program for printing Fibonacci series using recursion.	[7]
3	a)	What is abstract class? Explain	[3]
	b)	Create three classes with the names Shape, Rectangle and Circle and make use of the functions getdata( ), printdata( ) and area( ). To find the area of circle and rectangle, which type of inheritance is suitable? Why? Explain.	[12]
4	a)	How to create interfaces? When they are implemented and extended? Explain with examples.	[10]
	b)	Explain about the importance of CLASSPATH.	[5]
5	a)	Explain about the life cycle of threads.	[8]
	b)	Write a program to print even numbers in one thread and odd numbers in another thread.	[7]
6	a)	Differentiate between applet and application? What is secure applet?	[7]
	b)	Write an applet to calculate student grade.	[8]
7		Explain about different layout managers with examples	[15]
8	a)	Explain about JButton class and its methods.	[8]
	b)	Explain about the importance of Swings.	[7]

Code No: **R42028** **R10** **Set No. 2**

IV B.Tech II Semester Regular Examinations, April/May - 2014

OOPS THROUGH JAVA

(Electrical and Electronics Engineering)

Time : 3 hours **Max. Marks: 75**

Answer any Five Questions
All Questions carry equal marks
*****

1	a)	What is the need of OOP? Explain	[5]
	b)	Explain about the inheritance with examples	[10]
2	a)	Explain about multidimensional arrays.	[8]
	b)	Write a program to check whether the given string is palindrome or not.	[7]
3	a)	Differentiate between public, private and protected keywords with examples.	[8]
	b)	Write a program to calculate student grade using inheritance concepts.	[7]
4	a)	Differentiate between class and interface?	[5]
	b)	What are the uses of Packages? How to import packages? Write a program to find ncr value by calling factorial function which is located in another package class.	[10]
5	a)	Explain about exception handling.	[8]
	b)	Write a program for user defined exceptions?	[7]
6	a)	Explain about the parameter passing to applets.	[7]
	b)	Write an applet to find whether the given no is strong number or not.	[8]
7		Explain about different mouse handling events with program	[15]
8	a)	Differentiate between JApplet, JFrame and JComponent	[8]
	b)	Explain about Tabbed Panes.	[7]

Code No: **R42028** **R10** **Set No. 3**

IV B.Tech II Semester Regular Examinations, April/May - 2014

OOPS THROUGH JAVA

(Electrical and Electronics Engineering)

Time : 3 hours **Max. Marks: 75**

Answer any Five Questions
All Questions carry equal marks
*****

1	a)	Explain about the OOP concepts	[8]
	b)	Define class and object with examples	[7]
2	a)	What is the importance of this keyword?	[3]
	b)	Explain about different parameter passing methods with examples.	[12]
3	a)	What is polymorphism? Write a program to find the perimeter of the triangle and circle.	[8]
	b)	Explain about the multilevel inheritance with example.	[7]
4	a)	What type of inheritance is not there in JAVA? How it is compensated? Explain with example.	[10]
	b)	How to create packages? Explain.	[5]
5	a)	Explain about the keywords try, catch, throw and throws.	[8]
	b)	Write a program to catch divide by zero and array out of bounds exceptions.	[7]
6	a)	Explain about different types of applets	[7]
	b)	Write an applet to create registration form of a student.	[8]
7		Explain about the delegation event model with Event Listeners.	[15]
8	a)	Explain about Scroll Panes class and its methods.	[8]
	b)	How tables will be created in Swings? Explain.	[7]

Code No: **R42028** **R10** **Set No. 4**

IV B.Tech II Semester Regular Examinations, April/May - 2014

OOPS THROUGH JAVA

(Electrical and Electronics Engineering)

Time : 3 hours **Max. Marks: 75**

Answer any Five Questions
All Questions carry equal marks
*****

1	a)	How OOP is different from Structured programming? Explain.	[8]
	b)	What is abstraction? Explain about abstraction mechanisms.	[7]
2	a)	Explain about String and String Buffer classes.	[8]
	b)	Write a program to print first letter of each word in capital letter.	[7]
3	a)	Explain about the importance of super and final keywords.	[4]
	b)	Explain about different forms of inheritances with examples.	[12]
4	a)	What is package? How to access classes from different package? Explain.	[8]
	b)	Write a program to read two numbers in one class and do the arithmetic operations on these two numbers in another class, which is stored in another package.	[7]
5	a)	Explain about thread synchronization.	[8]
	b)	Write a program to find factorial in one thread and sum of integers in a given number in another thread.	[7]
6	a)	Explain about applet life cycle.	[7]
	b)	Write an applet to implement login form.	[8]
7		Explain about keyboard handling events with program	[15]
8	a)	What are the limitations of AWT? Explain	[5]
	b)	Discuss about the classes of check boxes, Radio buttons, Combo boxes with examples.	[10]