5.E. (IT) (Sem-III) (CBSGS) (R-2012) Date-28/11/19

Paper / Subject Code: 49806 / OBJECT ORIENTAED PROGRAMMING ÂMETHODOLOGY

Q. P. Code : 26235

(3 Hours)

Total Marks : 80

Note: Q. 1 is compulsory.

Attempt any THREE questions from Q. 2 to Q. 6

Q. 1	8	Explain Applet life cycle methods.	[5]
	b	Write a program to display Fibonacci series up to first n terms. Take input from	[5]
		command line arguments.	
	c	Explain Wrapper class in JAVA.	[5]
	d	Explain System.arraycopy() method with example.	[5]
Q. 2	a	Explain the steps to create package in JAVA to add class and interface with	[10]
		example.	
	b	Differentiate between method overloading and overriding. Write a program to	[10]
		override volume() method of Shape class into its subclasses Cube and Cylinder.	
		Shape is an abstract class.	
Q. 3	a	Explain different types of relationships among the entities.	[10]
		Define the relationships among the objects of given sentences:	
		1) Teacher is an Employee.	
		2) Teacher teaches OOPM subject to students.	
		3) John hires a car.	
		4) Drawer is a part of table.	
	b	Explain different ways to create Thread in JAVA. Write a program to display	[10]
		following pattern using threads.	
		\$@\$@\$@\$@\$@\$@\$@\$@	
Q. 4	a	Explain bitwise operators in JAVA.	[5]
	b	Discuss static data members and methods in JAVA.	[5]
	С	Explain any two methods of String class.	[5]

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d Write an applet program to display



- Q.5 a Explain exception handling mechanism with the help of try, catch, throw, throws [7] and finally.
 - b The manufacturing industry wants to maintain record of its products. If any new [8] product is build then it is added to the list. Also if any product is scraped it can be deleted from the list. Write a program to perform above operations and display list of products.
- cWrite a program to check whether given string is palindrome or not.[5]Q. 6aExplain inheritance and its types in JAVA.[10]
 - b Write a program to display sum of column elements of a matrix. [10]

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[5]