11/06/2015

Q.P. Code: 4842

		(3 Hours) [Total Marks	: 80
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IN.	в. :	(1) Question No. 1 is compulsory.(2) Attempt any three from remaining.	
		(2) Attempt any three nom remaining.	
1.	(a)	Write a program to calculate GCD of two numbers in JAVA.	5
	(b)	Explain any three features of JAVA.	5
	(c)	Draw and explain applet life cycle.	5 5
	(d)	Explain wrapper class and its applications.	5
2.	(a)	Write a program in JAVA to display following pattern. (Take input for number	5
		of rows from command line)	
		1	
		1 2	
		1 2 3	
		1 2 3 4	
	(b)	Write a note on System.arraycopy ().	5
	(c)	Identify classes and their attributes and draw the relationships specified by	10
		following problem.	
		(i) Bank maintains two kinds of accounts for customer, Saving account & current account. Saving account provides compound interest and withdrawal facility. Current account provides cheque book facility but no interest.	
		(ii) Library maintains books and magazines. A student can issue a book or return a book. A fine is charged if book is returned after 8 days. The magazines are not issued, but student can read it in library.	
3.	(a)	What is a package? Explain with example the steps to create package and add a class or an interface.	10
	(b)	Write a program to create vector objects with student names. Program should	10
		perform following operations based on choice:	
		(i) Add student name - To add new student name in the vector.	
		(ii) Remove student name -Removes student name if already exists else	
		display appropriate message.	
		(iii) Display-Display contents of vector.	
4			
4.	(a)	What is Exception? Explain how JAVA handles an Exception using following	10
	P	keywords:	
	7	try, catch, throw, throws & finally	
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	(b)	Write a program to read and display details of ten Employees with following specifications:	16
		Data Members : Emp_ID, Emp_name, Emp_Salary	
		Parameterized constructor to initialize data members of Employees and Member functions:	
		Display () - to display information of all employees	
5.	(a)	With the help of suitable example explain how threads are created in JAVA.	5
	(b)	Explain multiple inheritance in JAVA with example	5
	(c)	Write a program to count the number of alphabets, digits and special symbols from string.	10
6.	Writ	te short notes on (any four)	20
		(a) Method overloading & overriding	
		(b) Static data members & methods	
		(c) Abstract class & methods	
		(d) Constructor & its type	
		(e) JVM.	