Q.P. Code: 4842 cs 3 sem object orientaed programming methodology JUN 2015

		(3 Hours) [Total Marks :	80			
N.B.:		(1) Question No. 1 is compulsory.				
		(2) Attempt any three from 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 5			
	(d)	Explain wrapper class and its applications.				
2.	(a)	Write a program in JAVA to display following pattern. (Take input for number of rows from command line)	5			
		1				
		1 2				
		1 2 1 2 3 1 2 3 4				
	(1-)					
	(b)	1				
	(c)	Identify classes and their attributes and draw the relationships specified by				
		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.				
	10	(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				
	10.00	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.				

What is Exception? Explain how JAVA handles an Exception using following 4. (a) keywords: a2zsubjects.com

try, catch, throw, throws & finally

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Q.P. Code: 4842

2

	(b)		te a program to read and display details of ten Employees with following eifications:	10	
		Dat	a Members : Emp_ID, Emp_name, Emp_Salary		
			ameterized constructor to initialize data members of Employees and Member etions:		
			Display () - to display information of all employees		
5.	(a)	Wit	h the help of suitable example explain how threads are created in JAVA.	5	
	(b)		plain multiple inheritance in JAVA with example	5	
	(c)		te a program to count the number of alphabets, digits and special symbols	10	
	• •		n string.		
6.	Write short notes on (any four)				
			Method overloading & overriding		
		(b)	Static data members & methods	88	
a2		(c)	Abstract class & methods		
ZSL		(d)	Constructor & its type		
Ьje		(e)	JVM.		
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