Subject: Object Oriented Programming using JAVA Maximum Marks :60 Subject Code: BAI 102

Note: Q. 1 is compulsory. Attempt one question each from the Units I, II, III & IV.

		npulsory. Attempt one question each nom and	5*4=20)	
21				
	(a)	sive the output of the following code		
1		oublic class IGDTUW{		
		public static void main(){		
		String s = "OOPS using JAVA";		
	for( int i = 0 ; I< s.length(); i++){			
		System out print(""+i);		
		System.out.print( s.charAt(I) );		
		System.out.println( 1+i);	4	
		1		
		<b>Y</b>		
		//Explain the output Box (int) Box (int)	t int) for	
-	(b)	//Explain the output Create a class Box having multiple constructors. Box( int), Box (in	a cuboid	
	N/A	cube or cuboid Also create a delault construction		
		Take the have abject to show the full lines.		
			ava? Give	
	(d)	Differentiate between an abstract class and an interest of the between abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and an interest of the between an abstract class and	ava. Oire	
	(0)	example.		
-				
_	-	UNIT-I	(10)	
Q2	Explain	any 5 java Buzzwords. WAP to calculate and print the sum of the	(10)	
	W	1/ 1/2 1 / 1/n where n is a user input.	(10)	
03	That a transfer registral 2 How is it different from local and instance			
	the attitude a program to create a class Animals naving difficult			
	I was for all animals) name preed as variables and neody			
	print() r	nethods to read and print the details. Show the different types of		
	variable	s in the program.		
	1000	UNIT-II	(40)	
Q4 /	Differer	itiate between runtime and compile time polymorphism. Create	(10)	
4	- slace !	tom (no type) having methods read(), print(). Derive the class in		
	Rooke/ Title Author Publisher) and Pen( Color, type), Both the classes			
	also have read() and print() methods. Create 2-2 objects of Books and			
	Pen classes to show method overrinding. Use super to call base class			
	method			
or	What a	re the various types of inheritance in Java? Explain each with	(10)	
Q5	vviidt d	. Why is multiple inheritance not allowed in java? Give example.		
	example	it be implemented in Java? Give example.		
	How car	UNIT-III		
-	_	50000000000000000000000000000000000000	(10)	
9.5	What happens when an exception is another			
	to handle it? Explain with example.			
	WAP to calculate the average marks of a student in 5 subjects. Throw a			
	user defined exception if entered marks are nor between 0-100.			
	Program in a manner that user can re-enter the marks till correctly			
	Program	HI d Hidinici cite of		

Q7	What is the hierarchy of classes used in file handling? WAP to read the contents of a character file, reverse the contents and remove all blank spaces from it. Store the reversed without blank spaces content in a new file.	(10)
	UNIT-IV	(40)
Q8	What are the 2 methods for creating a thread? Which is better and why?  WAP to calculate the sum of squares of 1-10000 natural numbers through 4 threads. (Each thread processing 2500 numbers concurrently.	(10)
Q9	What are the different stages in the life cycle of an applet? Create an applet using AWT OR Swing package. It must have 1) Greeting: "Good Morning IGDTUW!!!", 2) Label Roll_No, followed by text field to enter it, 3) Label Branch, followed by text field to read branch 4) Submit button that prints "Details Submitted" when pressed.	(10)