_____ **C.U.SHAH UNIVERSITY** Winter Examination-2015

Subject Name : Object Oriented Programming with Java

	Sub	ject Code :	4TE04OPJ1		Branch : B.Tech (CE)		
	Sem	ester : 4	Date :24/11/2015	Time :2.30 To 5:30	Marks: 70		
	 Instructions: (1) Use of Programmable calculator & any other electronic instrument is prohibited. (2) Instructions written on main answer book are strictly to be obeyed. (3) Draw neat diagrams and figures (if necessary) at right places. (4) Assume suitable data if needed. 						
Q-1		Attempt th	ne following questions:			(14)	
	a)		ss cannot be a subclass ct class (b) Parent class	in java? (c) Final class (d) None of t	the above		
	b)		these is not a bitwise op &= (c) = (d) <=	perator?			
	c)	(a) by call(b) by call(c) by Bot	you stop the finally() blo ing return statement fro ing System.exit from try h return and System.exi of the above	y or catch block	v-catch block execution?		
	d)	Can you o (a) Yes (b	verride private or static) No	method in Java?			
	e)	Can you a (a) Yes (b	ccess non static variable) No	e in static context?			
	f)	(a) NullPo	the following is not an e pinter Exception (b) Arit indexOutOfBounds Exce	thmetic Exception (c) Logic	al Exception		
	g)	Can abstra (a) Yes (b	act class have constructo) No	or in Java?			

h) Which keyword is used by method to refer to the object that invoked it? (a) import (b) catch (c) abstract (d) this

Page 1 || 4



- i) Which of the following is a method having same name as that of its class?(a) finalize (b) delete (c) class (d) constructor
- j) Which of these cannot be declared static?(a) class (b) object (c) variable (d) method
- k) What is the output of this program? class increment { public static void main(String args[]) { int g = 3; System.out.println(++g * 8); } { (a) 25 (b) 24 (c) 32 (d) 33
- 1) What is the output of this program? class selection_statements { public static void main(String args[]) { int var1 = 5; int var2 = 6; if ((var2 = 1) == var1) System.out.println(var2); else System.out.println(++var2); } } (a) 1 (b) 2 (c) 3 (d) 4
- m) What is the Output of this program? class Output { public static void main(String args[]) { int x, y = 1; x = 10; if (x != 10 && x / 0 == 0)System.out.println(y); else System.out.println(++y); } } (a) 1 (b) 2 (c) Runtime error owing to division by zero (d) Unpredictable behaviour



```
n) What is the output of this program?
class main_class {
    public static void main(String args[])
    {
        int x = 9;
        if (x == 9) {
            int x = 8;
            System.out.println(x);
        }
    }
    }
    (a) 9 (b) 8 (c) Compilation Error (d) Runtime Error
```

Attempt any four questions from Q-2 to Q-8.

Q-2		Attempt all questions	
	a)	Explain buzzwords of JAVA.	(05)
	b)	Explain constructor overloading with example.	(05)
	c)	Write a program to compute x ^y . Consider x and y are type integers and input as command	(04)
		line arguments. Don't use Math class method.	
Q-3		Attempt all questions	
	a)	Explain method overriding with suitable example.	(05)
	b)	Explain constructor calling sequence in multilevel inheritance with suitable example.	(05)
	c)	Write a JAVA application to count total number of objects created for a class.	(04)
Q-4		Attempt all questions	
	a)	What is interface? Explain multiple inheritance with example.	(06)
	b)	What is super keyword? Write a program that shows use of super keyword (variable, constructor, method).	(06)
	c)	Differentiate: Constructor and Method of class.	(02)
Q-5		Attempt all questions	
	a)	Explain StringBuffer class with example.	(06)
	b)	Write a program that adds 100 days into current date and time and display new date and	(06)
		time.	
	c)	Differentiate: Checked and Unchecked Exceptions.	(02)
Q-6		Attempt all questions	
	a)	Explain thread life cycle.	(06)
	b)	Create three packages A, B and C. Where B and C are inside A. Write a program which	(06)
		shows how to access classes of packages A, B and C.	
	c)	Differentiate: abstract class and interface.	(02)

Page 3 || 4



Q-7		Attempt all questions	
	a)	Explain applet life cycle example.	(06)
	b)	Write a program that displays each alphabets of one String with the delay of 1000 Milliseconds and each alphabets of another String with the delay of 500 Milliseconds.	(06)
		Create two threads to implement this work.	
	c)	Differentiate: C++ and JAVA.	(02)
Q-8		Attempt all questions	
	a)	Write a program (using AWT) that will display three buttons. When user clicks on any	(07)
		button a String will be displayed on that button.	
	b)	Explain delegation event model.	(07)

b) Explain delegation event model.



