**Quiz-1**

**OOP using JAVA**

**Max Marks:10 Time:30 Minutes**

**Find output of the following code segment. Show the workout in the given space in right column.**

|  |  |
| --- | --- |
| **Q1.1** class BitShift  { public static void main(String [] args)  {  int x = 0x80000000;  System.out.print(x + " and ");  x = x >>> 31;  System.out.println(x);  }} |  |
| **Q1.2** class Test  {  public static void main(String [] args)  {  int x= 0;  int y= 0;  for (int z = 0; z < 5; z++)  {  if (( ++x > 2 ) && (++y > 2))  {  x++;  }  }  System.out.println(x + " " + y);  }} |  |
| **Q1.3** class static\_out  { static int x;  static int y;  void add(int a, int b){ x = a + b;  y = x + b;  }  }  class static\_use  { public static void main(String args[])  { static\_out obj1 = new static\_out();  static\_out obj2 = new static\_out();  int a = 2;  obj1.add(a, a + 1);  obj2.add(5, a);  System.out.println(obj1.x + " " + obj2.y);  }} |  |
| **Q1.4** public class X  { public static void main(String [] args)  { X x = new X();  X x2 = m1(x);  X x4 = new X();  x2 = x4;  }  static X m1(X mx)  { mx = new X();  return mx;  }} |  |

**Q2. Multiple choice questions**

**Q2.1 Which are valid declarations of a char?**

1. char c1 = 064770; b) char c2 = 'face'; c) char c3 = 0xbeef; d) char c4 = \u0022;

e) char c5 = '\iface'; f) char c6 = '\uface';

**Q2.2 Which of the following are legal lines of code?**

1. int w = (int)888.8; b) byte x = (byte)1000L; c) long y = (byte)100; d) byte z = (byte)100L;

**Q2.3 Which three statements are true?**

1. The default constructor initialises method variables.
2. The default constructor has the same access as its class.
3. The default constructor invokes the no-arg constructor of the superclass.
4. If a class lacks a no-arg constructor, the compiler always creates a default constructor.
5. The compiler creates a default constructor only when there are no other constructors for the class.

**Q2.4 You want subclasses in any package to have access to members of a superclass. Which is the most restrictive access that accomplishes this objective?**

A. public B. private C. protected D. no specifier

**Q2.5 Which cause a compiler error?**

A. int[ ] scores = {3, 5, 7}; B. int [ ][ ] scores = {2,7,6}, {9,3,45}; C. String cats[ ] = {"Fluffy", "Spot", "Zeus"};

D. boolean results[ ] = new boolean [] {true, false, true};

E. Integer results[ ] = {new Integer(3), new Integer(5), new Integer(8)};

**Q2.6 Which keyword is used by method to refer to the object that invoked it?**

a) import b) super c) abstract d) this

**Q2.7 Which function is used to perform some action when the object is to be destroyed?**

a) finalize() b) delete() c) main() d) None of the mentioned

**Q2.8 What is the process of defining a method in terms of itself, that is a method that calls itself?**

a) Polymorphism b) Abstraction c) Encapsulation d) Recursion

**Q2.9 What is the process of defining a method in subclass having same name & type signature as a method in its superclass?**

a) Method overloading b) Method overriding c) Method hiding d) None of the mentioned

**Q2.10 Which of these class relies upon its subclasses for complete implementation of its methods?**

a) Object class b) abstract class c) String class d) None of the mentioned

**Q3 State True/ False also give the proper reason.**

**Q3.1** Java provides automatic garbage collection.

**Q3.**2 The class Math is contained in the java.text package.

**Q3.3** We can create the object of abstract class.

**Q3.4** In java the method calling is resolved at compile time.

Q3**.5** Method overloading and Overriding are the same concept.