WRITTEN TEST – 03

1.Define abstract class in java?

Abstract class is a class that cannot be used to create object. The body by the subclass.

Example:

Abstract class shape {

Abstract void draw();

}

Class rectangle extends shape {

Void draw(){System.out.println(“drawing rectangle”);}

}

Class circle extends shape {

Void draw(){System.out.println(“drawing circle”);}

}

Class TestAbstraction1 {

Public static void main(String args[]) {

Shape s=new circle1();

s.draw();

}

2.Define interface?

An interface in java programming language is defined as an abstract type used to specify the behavior of a class.

Example:

Interface bank {

Float rateofinterst() ;

}

Class SBI implements bank {

Public float rateofintersert() {

Return 9.5f;

}

}

Class PNB implements bank {

Public float rateofinterst() {

Return 9.7f;

}

}

Class run {

Public static void main(Strings[]args) {

Bank b = new SBI();

System.out.println(“rOI:” +b.rateOfInterest();

}

}

3.Explain Exceptions in java with an example?

Try and catch error handling

Example:

Class javaExceptionExample {

Public static void main (Strings args[]) {

Try

{

Int data = 100/0;

}

Catch(ArithmeticException e)

{

System.out.println(e);

}

System.out.println(“rest of code”);

}

}

4.Differentiate between class and interface?

Class :\*The keywords used to create a class is “class”

\*A class can be instantiated i.e object of a class can be created.

\*can have final,non-final,static and non static varibles.

\*Decleard using the class keywords.

Interface : \*The keywords used to create an interface is “interface”

\*An interface cannot be instantiated i.e, object cannot be created.

\*can only have static and final varibles.

\*Decleard using the interface keywords.

5.Explain Interface segregation principle with an example?

“code should not be depend on method it does not use”

Example:

Interface Aniaml {

Public void animalSound();

Public void Sleep();

}

Class pig implements Animal {

Public void animalSound()

{

System.out.println(“The pig saysLwee wee”);

}

Public void sleep()

{

System.out.println(“ZZZ”);

}

}

Class A {

Public static void main(Strings args[])

{

Pig mypig = new pig();

Mypig.animalSound();

Mypig.Sleep();

}

}

6.What do you mean by JDBC? How to implements it in java

JDBC stands for java database connectivitymwhich is a standard java API for database-independent connectivity between the java programming language ,and a wide ranged of database.

Example:

Import java.sql

Class mysqlCon{

Public static void main(String args[]){

Try{

classforName(“com.mysql.jdbcDriver”);

connection con=driverManager.getconnection(

“jdbc’mysql://localhost:3306/sonoo”,”root,”,”root”);

Statement stmt=con.createStatement();

ResultSet rs=stmt.executeQuery(“select\*from emp”);

While(rs.next())

System.out.println(rs.getInt(1)+” “+rs.getString(2)+” “+rs.getString(3));

Con.close();

}catch(exception e){ System.out.println(e);}

}

}