

QUESTION 1

Choose the correct one to import a entire package

- A) import package
- B) import package*;
- C) import package.*;
- D) import package.*.;

- A) A
- B) B
- C) C
- D) D

ANS) C

QUESTION 2

```
public Object m()
{
    Object o = new Float(3.14F)
    Object [] oa = new Object[1]/* Line 5 */
    oa[0] = o /* Line 6 */
    o = null /* Line 7 */
    oa[0] = null /* Line 8 */
    return o /* Line 9 */
}
```

When is the Float object, created in line 3, eligible for garbage collection?

- A) just after line 5
- B) just after line 6
- C) just after line 7
- D) just after line 8
- E) just after line 9

ANS) just after line 8

QUESTION 3

Consider the code

```
int[] x = {5,6,7,8,9};
```

```
int[] y = x;
```

```
y[2] = 10;
```

What is the value of x[2]?

A) 6

B) 7

C) 8

D) 10

E) 0

ANS) 10

QUESTION 4

Given the following declarations, which of the assignments given in the options below would compile. Select the two correct answers.

```
int i = 5;
```

```
boolean t = true;
```

```
float f = 2.3F;
```

```
double d = 2.3;
```

A. t = (boolean) i;

B. f = d;

C. d = i;

D. i = 5;

E. f = 2.8;

A) A,B,C

B) B,C

C) C,D

D) C,D,E

E) A,D,E

ANS) C,D

QUESTION 5

What is the output of the below code:

```
class Test{
```

```
public static void main(String[] args) {
```

```
System.out.println(new Test(){
    public String toString(){
        return "test";
    }
});
}
```

- A) test
- B) No output
- C) Compilation fails
- D) Exception is thrown at Runtime

ANS) test

QUESTION 6

```
import App;
public class MyApp{
    public static void main(String[] args){
        //code here;
    }
}
```

How will you save the above java program?

- A) App.java
- B) App.class
- C) MyApp.java
- D) MyApp.class

ANS) MyApp.java

QUESTION 7

What is the output of the below code:

```
class Test {
    public static void main(String args[]) {
        int array[] = new int [5];
        for (int i = 5; i > 0; i--)
            array[5 - i] = i;
```

```
        Arrays.sort(array);
        System.out.print(Arrays.binarySearch(array, 4));
    }
}
```

- A) 1
- B) 1
- C) 2
- D) 3

ANS) 3

QUESTION 8

What is the output of the below code:

```
public class Test {
    public static void main(String... args) {
        double d=2D+2d+2.+2l+2L+2f+2F+2.f+2.D;
        System.out.println(d);
    }
}
```

- A) 18
- B) 9
- C) 9.0
- D) 18.0
- E) Run time exception
- F) Compiler error

ANS) 18.0

QUESTION 9

What is the output of the below code?

```
class Test{
    public static void main(String[] args) {
        Object obj = new Object();
        System.out.println(obj.getClass());
    }
}
```

- A) class java.lang.Test
- B) class java.lang.Object
- C) java.lang.Object
- D) java.lang.Test

ANS) class java.lang.Object

QUESTION 10

What is the output of the below code:

```
class Test{
    public static void main(String[] args) {
        try {
            int[] array = {1,2,3,4,5};
            for (int i = 0; i < 7; ++i) {
                System.out.print(array[i]);
            }
        } catch (ArrayIndexOutOfBoundsException e) {
            System.out.print("0");
        }
    }
}
```

- A) 12345
- B) 123450
- C) 12345
ArrayIndexOutOfBoundsException
- D) Compilation fails

ANS) 123450

QUESTION 11

What is the output of the below code:

```
class X{
    int a;
    static int a;
    int Add(){
        return a;
    }
}
```

```
}  
}
```

- A) 0
- B) No Ouput
- C) Compilation fails
- D) Run time error

ANS) Compilation fails

QUESTION 12

What is the output of the below code:

```
int[] array = {0,1,2,3};  
array.clear(2);  
System.out.println(array);
```

- A) {0,1,3}
- B) {2,3}
- C) {0,1}
- D) Compilation Fails

ANS) Compilation fails

QUESTION 13

Write the valid code to get the month?

```
public class Test {  
    public static void main(String[] args) {  
        Calendar calendar = new GregorianCalendar();  
        //insert code here  
        System.out.println(month);  
    }  
}
```

- A) int month = calendar.get(Calendar.DAY_OF_MONTH);
- B) int month = calendar.get(Calendar.MONTH);
- C) int month = calendar.get(MONTH);
- D) int month = calendar.get(MONTH);

ANS) int month = calendar.get(Calendar.MONTH);

QUESTION 14

What is the output of the below code:

```
package com.manipal.demo;  
public class DemoProgram {  
    public static void main(String[] args) {  
        Class cls = DemoProgram.class;  
        System.out.println(cls.getName());  
    }  
}
```

- A) DemoProgram
- B) com.manipal.demo.DemoProgram
- C) Compilation fails
- D) runtime error

ANS) com.manipal.demo.DemoProgram

QUESTION 15

What is the output of the below code:

```
public class DemoProgram {  
    public static void main(String[] args) {  
        double x = 60984.123;  
        double y = -497.99;  
        System.out.println(Math.floor(x)+" "+Math.floor(y)+" "+Math.floor(0));  
    }  
}
```

- A) 60984.2 -498.0 0.1
- B) 60984.2 -498.1 0.0
- C) 60984.0 -498.0 0.0
- D) 60984.0 -498.0 0.0
- E) Compilation fails

ANS) 60984.0 -498.0 0.0

QUESTION 16

Which is the primitive data type of c in the below syntax:
? C = 57.659

- A) float
- B) Float
- C) double
- D) Double

ANS) double

QUESTION 17

What is the output of the below code:

```
package com.manipal.demo;  
public class DemoProgram {  
    public static void main(String[] args) {  
        DemoProgram demo = new DemoProgram();  
        System.out.println(demo.getClass());  
    }  
}
```

- A) com.manipal.demo.DemoProgram
- B) class DemoProgram
- C) DemoProgram
- D) class com.manipal.demo.DemoProgram

ANS) class com.manipal.demo.DemoProgram

QUESTION 18

Which statement is valid for the below syntax:

```
while(i<10 && i >24){  
    }
```

- A) while loop never executes always true
- B) while loop never executes always false
- C) Compilation fails
- D) Exception thrown at run time

ANS) while loop never executes always false

QUESTION 19

What is the value and data type for the below code:

$2+3*5 = ?$

- A) 17 int
- B) 25 int
- C) 17 byte
- D) 25 byte

ANS) 17 int

QUESTION 20

```
class Base {}
```

```
class Derived extends Base {  
    public static void main(String args[]){  
        Base a = new Derived();  
        System.out.println(a instanceof Derived);  
    }  
}
```

- A) true
- B) false

ANS) true

QUESTION 21

Given the declaration

Circle x = new Circle(), which of the following statement is most accurate.

- A. x contains an int value.
- B. x contains an object of the Circle type.
- C. x contains a reference to a Circle object.
- D. You can assign an int value to x.

- A) A
- B) B
- C) C
- D) D

ANS) C

QUESTION 22

Given:

```
class Mammal { }  
class Raccoon extends Mammal {  
    Mammal m = new Mammal();  
}  
class BabyRaccoon extends Mammal { }
```

Which four statements are true? (Choose four.)

- A. Raccoon is-a Mammal.
- B. Raccoon has-a Mammal.
- C. BabyRaccoon is-a Mammal.
- D. BabyRaccoon is-a Raccoon.
- E. BabyRaccoon has-a Mammal.
- F. BabyRaccoon is-a BabyRaccoon.

- A) A,B,D,C
- B) C,D,E,A
- C) A,D,E,F
- D) A,B,C,F

ANS) A,B,C,F

QUESTION 23

Given:

```
public interface A{public void m1();}  
class B implements A{}  
class C implements A {public void m1(){}}  
class D implements A{public void m1(int x){}}  
abstract class E implements A{}  
abstract class F implements A{public void m1(){}}
```

abstract class G implements A{public void m1(int x){}}

What is the result

- A) compilation succeeds
- B) Exactly one class does NOT compile
- C) Exactly two classes do NOT compile
- D) Exactly four classes do NOT compile
- E) Exactly three classes do NOT compile

ANS) Exactly two classes do NOT compile

QUESTION 24

Given:

```
interface Foo { int bar(); }  
public class Test {  
    public static int fubar( Foo foo ) { return foo.bar(); }  
    public void testFoo() {  
        fubar(/*Insert Code here*/);  
    }  
}
```

Which code allows the class Test to compile?

- A. Foo { public int bar() { return 1; } }
- B. new Foo { public int bar() { return 1; } }
- C. new Foo() { public int bar() { return 1; } }
- D. new class Foo { public int bar() { return 1; } }

- A) A
- B) B
- C) C
- D) D

ANS) C

QUESTION 25

A team of programmers is reviewing a proposed API for a new utility class. After some discussion,
they realize that they can reduce the number of methods in the API without losing any

functionality. If they implement the new design, which two OO principles will they be promoting?

- A. Looser coupling
- B. Tighter coupling
- C. Lower cohesion
- D. Higher cohesion
- E. Weaker encapsulation

- A) A
- B) B
- C) C
- D) D
- E) E

ANS) A,D

QUESTION 26

A team of programmers is involved in reviewing a proposed design for a new utility class. After some discussion, they realize that the current design allows other classes to access methods in the utility class that should be accessible only to methods within the utility class itself. What design issue has the team discovered?

- A. Tight coupling
- B. Low cohesion
- C. High cohesion
- D. Weak encapsulation
- E. Strong encapsulation

- A) A
- B) B
- C) C
- D) D
- E) E

ANS) D

QUESTION 27

What will be the output of the program?

```
public class Animal
{
    public static void main(String [] args)
    {
        Dog [][] theDogs = new Dog[3][]
        System.out.println(theDogs[2][0].toString())
    }
}
class Dog { }
```

- A) null
- B) theDogs
- C) Compilation fails
- D) An exception is thrown at runtime

ANS) An exception is thrown at runtime

QUESTION 28

What will be the output of the below code

```
class Employee{
    Employee(){
        System.out.println(1);
    }
    void test(){
        this();
        System.out.println(2); }
}
class Manager
{
    public static void main(String args[]){
        Employee e1=new Employee();
    }
}
```

- A) 1
- B) 2
- C) compile time error
- D) run time error

ANS) compile time error

QUESTION 29

Choose the invalid declaration of String array?

- A) String[] s
- B) String s[]
- C) String [s]
- D) String []s

ANS) String [s]

QUESTION 30

```
import java.io.*;
public class Test {
    public static void main(String[] args) {
        String s1 = "abc";
        String s2 = "def";
        String s3 = s1.concat(s2.toUpperCase());
        System.out.println(s1+s2+s3);
    }
}
```

What is the output of the above code ?

- A) abcDEF
- B) abcdefabcdef
- C) abcdefDEF
- D) abcdefabcDEF

ANS) abcdefabcDEF

QUESTION 31

```
public class Test {
    public static void main(String[] args) {
        String a = "hello i love java";
        System.out.println(a.indexOf('i')+" "+a.lastIndexOf('o')+" "+a.lastIndexOf('i')+" "+a.indexOf('o'));
    }
}
```

```
}
```

What is the output of the program?

A) 6 9 6 7

B) 6 9 6 4

C) 5 9 6 4

D) 5 9 5 4

ANS) 6 9 6 4

QUESTION 32

What is the output of the below code:

```
class Test {  
    public static void main(String args[])  
    {  
        StringBuffer s1 = new StringBuffer("Hello");  
        StringBuffer s2 = s1.reverse();  
        System.out.println(s2);  
    }  
}
```

A) Hello

B) olleH

C) Compilation fails

D) Runtime error

ANS) olleH

QUESTION 33

What is the output of the below code:

```
class Test  
{  
    public static void main(String[] s)  
    {  
        String s1="Hello",s2="World";  
        System.out.println(s1+s2);  
        System.out.println(s1.concat(s2));  
    }  
}
```

- A) HelloWorld
- B) HelloWorld
HelloWorld
- C) Compilation fails
- D) Runtime error

ANS) HelloWorld
HelloWorld

QUESTION 34

What is the output of the below code,

```
public class Test {  
    public static void main(String[] args) {  
        System.out.println("String "+new Integer("4")+5);  
    }  
}
```

- A) String 9
- B) String 45
- C) compilation error
- D) run time error

ANS) String 45

QUESTION 35

What will be the output of the below code:

```
if( "Welcome".trim() == "Welcome".trim() )  
    System.out.println("Equal");  
else  
    System.out.println("Not Equal");
```

- A) compile and display "Equal"
- B) compile and display "Not Equal"
- C) cause a compiler error
- D) compile and display NULL

ANS) compile and display "Equal"

QUESTION 36

Which are the legal String operations

- A) s3= s1+s2;
- B) s3= s1-s2;
- C) s3= s1&s2;
- D) s3= s1&&s2;

- A) A
- B) B
- C) C
- D) D

ANS) A

QUESTION 37

What is the output of the below code

```
class Test{  
    public static void main(String[] args) {  
        System.out.println(5.45+"3,2");  
    }  
}
```

- A) 5
- B) 5.4
- C) 5.453,2
- D) Compilation Fails

ANS) 5.453,2

QUESTION 38

What is the output of the below code:

```
StringBuffer s = new StringBuffer("Hello");  
StringBuffer s1 = new StringBuffer("World");  
s.append(s1);  
System.out.println(s);
```

- A) Hello
- B) World
- C) Hello World
- D) Compilation Fails

ANS) Hello World

QUESTION 39

What is the output of the below syntax:

```
String s = "IDEAL";  
System.out.println(s.substring(0, s.length()-1)+(s.charAt(s.length()-1)));
```

- A) IDE
- B) IDEAL
- C) IDEA
- D) Compilation Fails

ANS) IDEAL

QUESTION 40

What is the output of the below code:

```
class Test{  
    public static void main(String[] args) {  
        StringBuffer buffer = new StringBuffer("HelloWorld");  
        buffer.insert(5, "test");  
        System.out.println(buffer);  
    }  
}
```

- A) Hellotest
- B) HellotestWorld
- C) Compilation fails
- D) Runtime error

ANS) HellotestWorld

QUESTION 41

What is the output of the below code:

```
public class Test{  
    public static void main(String[] args) {  
        String s = new String("IBM");  
        System.out.println(s.length());  
    }  
}
```

- A) 2
- B) 3
- C) Compilation fails
- D) runtime error

ANS) 3

QUESTION 42

What is the output of the below code:

```
class Test{  
    public static void main(String[] args) {  
        String str = "Good Morning";  
        str.concat("Hello");  
        System.out.println(str);  
    }  
}
```

- A) Good Morning
- B) Good Morning Hello
- C) Compilation fails
- D) runtime error

ANS) Good Morning

QUESTION 43

What is the output of the below code:

```
class Test{  
    public static void main(String[] args) {  
        StringBuffer buffer = new StringBuffer("Good");
```

```
buffer.reverse();
System.out.println(buffer);
}
}
```

- A) dooG
- B) Good
- C) Compilation fails
- D) runtime error

ANS) dooG

QUESTION 44

What is the output of the below code:

```
public class DemoProgram {
    public static void main(String[] args) {
        System.out.println(5+4+"String"+7+1);
    }
}
```

- A) 54String71
- B) 9String8
- C) 9String71
- D) 54String8

ANS) 9String71

QUESTION 45

What is the output of the below code:

```
public class DemoProgram {
    public static void main(String[] args) {
        String str = "Hello World";
        str.addAtIndex(5, "test");
    }
}
```

- A) HellotestWorld
- B) Hellotest

C) Compilation fails

D) runtime error

ANS) Compilation fails

QUESTION 46

```
class SuperClass {
    public int dolt(String str, Integer... data)throws ArrayIndexOutOfBoundsException{
        String signature = "(String, Integer[])";
        System.out.println(str + " " + signature);
        return 1;
    }
}
public class Test extends SuperClass{
    public int dolt(String str, Integer... data) throws Exception
    {
        String signature = "(String, Integer[])";
        System.out.println("Overridden: " + str + " " + signature);
        return 0;
    }
    public static void main(String... args)
    {
        SuperClass sb = new Test();
        try{
            sb.dolt("hello", 3);
        }catch(Exception e){
        }
    }
}
```

What is the output of the above code?

A) Overridden:hello(String,
Integer[])

B) hello (String, Integer[])

C) This code throws exception at run time

D) compile time error

ANS) compile time error

QUESTION 47

Pick runtime exception?....

- A. ClassCastException
- B. FileNotFoundException
- C. NullPointerException
- D. SecurityException
- E. Above all

- A) A,B,C
- B) C,D,E
- C) A,D,E
- D) A,C,D
- E) E

ANS) A,C,D

QUESTION 48

```
public class Test {  
    public static void main(String args[]) {  
        try {  
            int a = args.length;  
  
            int b = 10 / a;  
            System.out.print(a);  
            try {  
                if (a == 1)  
                    a = a / a - a;  
                if (a == 2) {  
                    int c[] = {1};  
                    c[8] = 9;  
                }  
            }  
        }  
        catch (ArrayIndexOutOfBoundsException e) {  
            System.out.println("TypeA");  
        }  
        catch (ArithmeticException e) {  
            System.out.println("TypeB");  
        }  
    }  
}
```

```
}  
}
```

- A) TypeA
- B) 0TypeA
- C) 0TypeB
- D) TypeB

ANS) TypeB

QUESTION 49

```
public class Test {  
    public static void main(String[] args) {  
        try{  
            System.out.println("String "+1/0);  
        }catch(ArithmeticException ae){  
            System.out.println("Catch block");  
        }  
    }  
}
```

What is the output of the program?

- A) String Infinity Catch block
- B) String Catch block
- C) Catch block
- D) Infinity

ANS) Catch block

QUESTION 50

In multiple catch clause which of the following statements are valid?

- A) Super class block will execute first
- B) Sub class catch block will execute first
- C) Super class catch block will never execute
- D) Sub class catch block will never execute

ANS) Sub class catch block will execute first

QUESTION 51

What is the output of the below code:

```
public class Test {  
    public static void main(String[] args) {  
        double x = 0, y = 5.4324;  
        try {  
            System.out.println( (y/x) );  
        }  
        catch (Exception e) {  
            System.out.println("Exception");  
        }  
        catch (Throwable t) {  
            System.out.println("Error");  
        }  
    }  
}
```

- A) Exception
- B) Error
- C) Infinity
- D) Exception Error

ANS) Infinity

QUESTION 52

What is the output of the below code:

```
class OurCreatedException extends Exception{  
    OurCreatedException(){  
        super();  
    }  
}  
  
class XYZ{  
    public static void method(String name) throws OurCreatedException{  
        if(name==null){  
            throw new OurCreatedException();  
        }  
        else{
```



```
    System.out.println("Welcome "+name);  
}  
}  
}  
class Test{  
    public static void main(String[] args) {  
        XYZ.method("John");  
    }  
}
```

- A) Welcome John
- B) null
- C) Compilation fails
- D) OurCreatedException thrown at run time

ANS) Compilation fails

QUESTION 53

What type of Exception Occurs at the following snippet code:

```
Number n = new Integer(12);  
Double d = (Double)n;  
System.out.println(d);
```

- A) NumberFormatException
- B) ClassCastException
- C) InputMismatchException
- D) None of the above

ANS) ClassCastException

QUESTION 54

What is the output of the below code:

```
public class DemoProgram {  
    public static void main(String[] args) {  
        try{  
            int a=0,b=10;  
            int c=a/b;  
            System.out.println("Hello");  
        }  
    }  
}
```

```
}catch(ArithmeticException e){  
    System.out.println("world");  
}  
}  
}
```

- A) world
- B) Hello
- C) ArithmeticException
- D) Compilation fails

ANS) Hello

QUESTION 55

What type of exception occurs in the below code:

```
class Test{  
    public static void main(String[] args) {  
        try{  
            int[] array = {1,3,5,6};  
            System.out.println(array[-1]);  
        }catch(NegativeArraySizeException ne){  
            ne.printStackTrace();  
        }  
        catch(ArrayIndexOutOfBoundsException ae){  
            ae.printStackTrace();  
        }  
    }  
}
```

- A) NegativeArraySizeException
- B) ArrayIndexOutOfBoundsException
- C) both a & b
- D) none of the above mentioned

ANS) ArrayIndexOutOfBoundsException

QUESTION 56

What is the output for the below code ?

```
class Test{
public static void main(String args[]){
try{
System.out.println("one");
System.exit(0);
}catch(Exception e){
System.out.println("two"); }
finally{
System.out.println("three");
}
}
}
```

- A) one
- B) one two
- C) one two three
- D) two three

ANS) one

QUESTION 57

Given that the current directory is empty, and that the user has read and write permissions, and the following:

```
11. import java.io.*;
12. public class DOS {
13. public static void main(String[] args) {
14. File dir = new File("dir");
15. dir.mkdir();
16. File f1 = new File(dir, "f1.txt");
17. try {
18. f1.createNewFile();
19. } catch (IOException e) { ; }
20. File newDir = new File("newDir");
21. dir.renameTo(newDir);
22. }
23. }
```

Which statement is true?

- A. Compilation fails.

- B. The file system has a new empty directory named dir.
- C. The file system has a new empty directory named newDir.
- D. The file system has a directory named dir, containing a file f1.txt.
- E. The file system has a directory named newDir, containing a file f1.txt.

- A) A
- B) B
- C) C
- D) D
- E) E

ANS) E

QUESTION 58

```
public class ByteTest {  
    public static void main(String[] args) {  
        String obj = "abc";  
        byte b[] = obj.getBytes();  
        ByteArrayInputStream obj1 = new ByteArrayInputStream(b);  
        System.out.println((char)obj1.read());  
    }  
}
```

What is the output?

- A) a
- B) b
- C) c
- D) abc
- E) 97

ANS) a

QUESTION 59

What is the output of the below code:

```
import java.io.*;  
class files {  
    public static void main(String args[]) {  
        File obj = new File("/FilesDemo/DemoPrograms");  
        System.out.print(obj.getAbsolutePath());  
    }  
}
```

```
}  
}
```

- A) FilesDemo/DemoPrograms
- B) /FilesDemo/DemoPrograms/
- C) /FilesDemo/DemoPrograms
- D) Compilation fails

ANS) /FilesDemo/DemoPrograms

QUESTION 60

What is the output of below code,
File f = new File("c:\\test\\abc.txt");
System.out.println(f.getName());

- A) abc
- B) abc.txt
- C) c:\\test\\abc.txt
- D) compile error

ANS) abc.txt

QUESTION 61

What is the output of the below code:

```
class Test {  
    public static void main(String[] args) {  
        try {  
            Myclass object1 = new Myclass("Hello", -7, 2.1e10);  
            FileOutputStream fos = new FileOutputStream("serial");  
            ObjectOutputStream oos = new ObjectOutputStream(fos);  
            oos.writeObject(object1);  
            oos.flush();  
            oos.close();  
        }  
        catch(Exception e) {  
            System.out.println("Serialization" + e);  
            System.exit(0);  
        }  
    }  
}
```

```

try {
    int x;
    FileInputStream fis = new FileInputStream("serial");
    ObjectInputStream ois = new ObjectInputStream(fis);
    x = ois.readInt();
    ois.close();
    System.out.println(x);
}
catch (Exception e) {
    System.out.print("deserialization");
    System.exit(0);
}
}

class Myclass implements Serializable {
String s;
int i;
double d;
    Myclass(String s, int i, double d){
        this.d = d;
        this.i = i;
        this.s = s;
    }
}

```

- A) -7
- B) Hello
- C) Serialization
- D) deserialization

ANS) deserialization

QUESTION 62

What will be the result of compiling and run the following code:

```

import java.io.File;
public class Test {
    public static void main(String... args) throws Exception {
        File myDir = new File("test");
        // myDir.mkdir();
    }
}

```

```
File myFile = new File( myDir, "test.txt");
myFile.createNewFile();
}}
```

- A) create directory "test" and a file name as "test.txt"
- B) java.io.IOException
- C) Compile with error
- D) None of the above

ANS) java.io.IOException

QUESTION 63

What is the output of the below snippet code:

```
File f = new File("D:\\workspace\\DemoPrograms\\samplefile.txt");
System.out.println(f.getAbsolutePath());
```

- A) D:\\workspace\\DemoPrograms\\samplefile.txt
- B) D:\\workspace\\DemoPrograms\\samplefile.txt
- C) workspace\\DemoPrograms\\samplefile.txt
- D) workspace\\DemoPrograms\\samplefile.txt

ANS) D:\\workspace\\DemoPrograms\\samplefile.txt

QUESTION 64

What is the output for the below code?

```
public class A {
public A() {
System.out.println("A")
}}
public class B extends A implements Serializable {
public B() {
System.out.println("B")
}}
public class Test {
public static void main(String... args) throws Exception {
B b = new B()
ObjectOutputStream save = new ObjectOutputStream(new
FileOutputStream("datafile"))
```

```
save.writeObject(b)
save.flush()
ObjectInputStream restore = new ObjectInputStream(new
FileInputStream("datafile"))
B z = (B) restore.readObject()
}}
```

- A) A B A B
- B) A B
- C) B A B
- D) A B A

ANS) A B A

QUESTION 65

What is the output of the below code:

```
import java.io.*;
class Chararrayinput {
    public static void main(String[] args) {
        String obj = "abcdef";
        int length = obj.length();
        char c[] = new char[length];
        obj.getChars(0, length, c, 0);
        CharArrayReader input1 = new CharArrayReader(c);
        CharArrayReader input2 = new CharArrayReader(c, 0, 3);
        int i;
        try {
            while((i = input2.read()) != -1) {
                System.out.print((char)i);
            }
        }
        catch (IOException e) {
            e.printStackTrace();
        }
    }
}
```

- A) abc
- B) abcd
- C) abcde

D) abcdef

ANS) abc

QUESTION 66

Which of the following code retrieves the body of the request as binary data?

A - new InputStream()

B - response.getInputStream()

C - request.getInputStream()

D - None of the above.

A) A

B) B

C) C

D) D

ANS) C

QUESTION 67

```
class MyThread implements Runnable {
    public void run(){
        System.out.println("Running MyThread");
    }
} // end of MyThread

class YourThread extends Thread {
    public YourThread(Runnable r) {
        super(r);
    }
    public void run(){
        System.out.println("Running YourThread");
    }
} // end of YourThread

public class Test {
```

```

public static void main(String args[]) {
    MyThread t1 = new MyThread();
    YourThread t2 = new YourThread(t1);
    t2.start();
}
}

```

What will be the output of the above Code?

- A) Running MyThread
- B) Running YourThread
- C) Running MyThread
Running YourThread
- D) Compilation fails
- E) Runtime error

ANS) Running YourThread

QUESTION 68

```

public class Test {
    public static void main (String[] args) { new Test().go();
    }
    public void go() {
        Runnable r = new Runnable() { public void run() { System.out.print("foo"); }
        };
        Thread t = new Thread(r);
        t.start();
        t.start(); } }

```

What is the result?

- A) An exception is thrown at runtime.
- B) Compilation fails.
- C) The code executes normally and prints "foo".
- D) The code executes normally, but nothing is printed.

ANS) An exception is thrown at runtime.

QUESTION 69

What is the output of the below code:

```
class Test extends Thread{
    public static void main(String[] args) {
        Test t = new Test();
        t.setName("Thread 0");
        t.start();
    }
    public void run(){
        System.out.println(Thread.currentThread().getName());
    }
}
```

- A) Thread 0
- B) main
Thread 0
- C) Compilation error
- D) Runtime error

ANS) Thread 0

QUESTION 70

What is the output of the below code:

```
class Test{
    public static void main(String[] args) {
        new Thread(new Runnable() {
            @Override
            public void run() {
                System.out.println("Thread running");
            }
        }).start();
    }
}
```

- A) Thread running
- B) No output
- C) Compilation error
- D) Runtime error

ANS) Thread running

QUESTION 71

What is the output of the below code:

```
class Test{  
public static void main(String[] args) {  
    Thread t = new Thread();  
    System.out.println(t.currentThread().getPriority());  
}  
}
```

- A) 1
- B) 3
- C) 5
- D) 7

ANS) 5

QUESTION 72

What is the output of the below code:

```
public class Test {  
    public static void main(String[] args){  
        System.out.println(Thread.currentThread().getName());  
    }  
}
```

- A) mainthread
- B) Thread
- C) main
- D) currentThread

ANS) main

QUESTION 73

What will be the output of the program?

```
class MyThread extends Thread{  
    MyThread(){}  
    MyThread(Runnable r){  
        super();  
    }  
}
```

```
public void run(){
System.out.println("Inside Thread");
}
}
class MyRunnable implements Runnable{
public void run(){
System.out.println("Inside Runnable");
}
}
class Test{
public static void main(String[] args){
new MyThread().start();
new MyThread(new MyRunnable()).start();
}
}
```

- A) Inside Thread
Inside Thread
- B) Inside Thread
Inside Runnable
- C) Does Not compile
- D) Throw Exception at runtime

ANS) Inside Thread
Inside Thread

QUESTION 74

Which methods belong to Thread Class

- a. wait()
- b. run()
- c. start()
- d. notify
- e. notifyAll()
- f. interrupt()

- A) a,b,d
- B) c,d,e,f
- C) b,c,f
- D) b,d,e,f

ANS) b,c,f

QUESTION 75

Assume the following method is properly synchronized and called from a thread A on an object B
`wait(2000);`

After calling this method , when will the thread A become a candidate to get another turn at the CPU?

- A) Two seconds after thread A is notified
- B) After thread A is notified or after two seconds
- C) Two seconds after lock B is released
- D) After the lock on B is released or after two seconds

ANS) After thread A is notified or after two seconds

QUESTION 76

Given:

1. `import java.util.*`
2. `public class WrappedString {`
3. `private String s`
4. `public WrappedString(String s) { this.s = s }`
5. `public static void main(String[] args) {`
6. `HashSet hs = new HashSet()`
7. `WrappedString ws1 = new WrappedString("aardvark")`
8. `WrappedString ws2 = new WrappedString("aardvark")`
9. `String s1 = new String("aardvark")`
10. `String s2 = new String("aardvark")`
11. `hs.add(ws1) hs.add(ws2) hs.add(s1) hs.add(s2)`
12. `System.out.println(hs.size()) }`

What is the result?

- A) 1
- B) 2
- C) 3
- D) 4

ANS) 3

QUESTION 77

A programmer has an algorithm that requires a java.util.List that provides an efficient implementation of add(0, object), but does NOT need to support quick random access.

What

supports these requirements?

- A. java.util.Queue
- B. java.util.ArrayList
- C. java.util.LinearList
- D. java.util.LinkedList

- A) A
- B) B
- C) C
- D) D

ANS) D

QUESTION 78

Given:

```
34. HashMap props = new HashMap();  
35. props.put("key45", "some value");  
36. props.put("key12", "some other value");  
37. props.put("key39", "yet another value");  
38. Set s = props.keySet();  
39. // insert code here What, inserted at line 39, will sort the keys in the props  
HashMap?
```

- A. Arrays.sort(s);
- B. s = new TreeSet(s);
- C. Collections.sort(s);
- D. s = new SortedSet(s);

- A) A
- B) B
- C) C
- D) D

ANS) B

QUESTION 79

Given:

```
import java.util.ArrayList;
class Test{
    public static void main(String[] args) {
        ArrayList<String> m = new ArrayList<String>();
        m.add("some string");//line3
        m.add(54);//line4
        m.add(new ArrayList<Integer>().add(70));//line5
        m.add(new ArrayList<String>().add("some string"));//line6
    }
}
```

- A) Compilation fails at line3
- B) Compilation fails at line4
- C) Compilation fails at line5
- D) Compilation fails at line6

ANS) Compilation fails at line4

QUESTION 80

What is the output for the below code ?

```
import java.util.LinkedList;
import java.util.Queue;
public class Test {
    public static void main(String... args) {
        Queue q = new LinkedList();
        q.add("newyork");
        q.add("ca");
        q.add("texas");
        show(q);
    }
    public static void show(Queue q) {
        q.add(new Integer(11));
        while (!q.isEmpty ( ) )
            System.out.print(q.poll() + " ");
    }
}
```

- A) newyork ca texas 11

- B) ca newyork texas 11
- C) 11 texas ca newyork
- D) Compile error : Integer can't add

ANS) newyork ca texas 11

QUESTION 81

What is the output for the below code ?

```
public class Test {  
    public static void main(String argv[]){  
        ArrayList list = new ArrayList();  
        ArrayList listStr = list;  
        ArrayList listBuf = list;  
        listStr.add(0, "Hello");  
        StringBuffer buff = (StringBuffer) listBuf.get(0);  
        System.out.println(buff.toString());  
    }  
}
```

- A) Hello
- B) Compile time error
- C) java.lang.ClassCastException
- D) null

ANS) java.lang.ClassCastException

QUESTION 82

What is the output of below code?

```
public class Bean{  
    private String str  
    Bean(String str ){  
        this.str = str  
    }  
    public String getStr() {  
        return str  
    }  
    public boolean equals(Object o){  
        if (!(o instanceof Bean)) {  
            return false
```

```

}
return ((Bean) o).getStr().equals(str)
}
public int hashCode() {
return 12345
}
public String toString() {
return str
}
}
import java.util.HashSet
public class Test {
public static void main(String ... sss) {
HashSet myMap = new HashSet()
String s1 = new String("das")
String s2 = new String("das")
Bean s3 = new Bean("abcdef")
Bean s4 = new Bean("abcdef")
myMap.add(s1)
myMap.add(s2)
myMap.add(s3)
myMap.add(s4)
System.out.println(myMap)
}
}

```

- A) das abcdef
- B) das abcdef das abcdef
- C) das das abcdef abcdef
- D) das

ANS) das abcdef

QUESTION 83

What is the output of the below code:

```

import java.util.*;
class genericstack <E> {
    Stack <E> stk = new Stack <E>();
public void push(E obj) {
    stk.push(obj);

```

```

    }
    public E pop() {
        E obj = stk.pop();
        return obj;
    }
}

public class Test {
    public static void main(String args[]) {
        genericstack <String> gs1 = new genericstack<String>();
        gs1.push("Hello");
        System.out.print(gs1.pop() + " ");
        genericstack <Integer> gs2 = new genericstack<Integer>();
        gs2.push(36);
        System.out.println(gs2.pop());
    }
}

```

- A) Hello
- B) 36
- C) compile time error
- D) run time error
- E) Hello 36

ANS) Hello 36

QUESTION 84

What is the output of the below code:

```

public class Test {
    public static void main(String[] args) {
        List<String> list = new ArrayList();
        list.add("test");
        list.add(123);
        list.add('c');
        System.out.println(list);
    }
}

```

- A) [test,123,c]
- B) No output
- C) compilation fails

D) Runtime error

ANS) Compilation fails

QUESTION 85

What is the output of the below code?

```
public class Test {  
    public static void main(String[] args) {  
        List<Integer> list = new ArrayList<Integer>();  
        list.add(9);  
        list.add(8);  
        list.add(2);  
        list.add(5);  
        list.add(1);  
        Iterator itr = list.iterator();  
        Collections.reverse(list);  
        Collections.sort(list);  
        while(itr.hasNext()){  
            System.out.println(itr.next());  
        }  
    }  
}
```

A) 9

8

2

5

1

B) 1

5

2

8

9

C) 1

2

5

8

9

D) 1

2

9
8
5

ANS) 1

2
5
8
9

QUESTION 86

Whats is the output of the below code:

```
class Test extends Thread{  
    public static void main(String[] args) {  
        Vector v = new Vector(3,2);  
        v.add("data 1");  
        v.add("data 2");  
        v.add("data 3");  
        v.removeAll(v);  
        System.out.println(v.isEmpty());  
    }  
}
```

- A) true
- B) false
- C) comiplation fails
- D) Runtime error

ANS) true

QUESTION 87

Which collection class allows you to associate its elements with key values, and allows you to retrieve objects in FIFO (first-in, first-out) sequence?

- A) java.util.ArrayList
- B) java.util.LinkedHashMap
- C) java.util.HashMap
- D) java.util.TreeMap

ANS) java.util.LinkedHashMap

QUESTION 88

What is the output of the below code:

```
class Test{
    public static void main(String[] args) {
        Stack<String> data = new Stack();
        data.add("test");
        data.add("hello");
        data.add(123);
        System.out.println(data);
    }
}
```

- A) test
hello
123
- B) test
hello
- C) Compilation fails
- D) run time error

ANS) Compilation fails

QUESTION 89

```
class Test{
    public static void main(String[] args) {
        HashMap map = new HashMap();
        map.put(null, "one");
        map.put(null, "two");
        map.put(3, "three");
        map.put(4, "four");
        Iterator entries = map.entrySet().iterator();
        while(entries.hasNext()){
            Map.Entry entry = (Map.Entry) entries.next();
            System.out.println("key "+entry.getKey()+" value "+entry.getValue());
        }
    }
}
```

```
}  
}  
}
```

What is the output of the above code?

- A) key null value null
key null value two
key 3 value three
key 4 value four
- B) key null value one two
key 3 value three
key 4 value four
- C) key null value two
key 3 value three
key 4 value four
- D) None of the above

ANS) key null value two
key 3 value three
key 4 value four

QUESTION 90

```
class Test {  
    public static void main(String[] args) {  
        List<Object> list = new ArrayList<String>();/*error at line 3*/  
        list.add("test");/*error at line 4*/  
        list.add(new Integer(1));/*error at line 5*/  
        list.add(new Double(1.23223));/*error at line 6*/  
        list.add(12.3f);/*error at line 7*/  
    }  
}
```

- A) test
1
1.23223
12.3
- B) Error at line 3
- C) Error at line 4
- D) Error at line 5
- E) Error at line 6

ANS) Error at line 3

QUESTION 91

What is the output of the below code:

```
public class Test {  
    public static void main(String[] args) {  
        List<Integer> list = new ArrayList<Integer>();  
        list.add(9);  
        list.add(8);  
        list.add(2);  
        list.add(1);  
        Collections.reverse(list);  
        Collections.sort(list);  
        Iterator itr = list.iterator();  
        Collections.shuffle(list);  
        while(itr.hasNext()){  
            System.out.println(itr.next());  
        }  
    }  
}
```

- A) 9 8 2 1
- B) 1 2 8 9
- C) 2 9 1 8
- D) Non-Predicatable

ANS) Non-Predicatable

QUESTION 92

Given the code fragment:

1. ArrayList<Integer> list = new ArrayList<>(1);
2. list.add(1001);
3. list.add(1002);
4. System.out.println(list.get(list.size()));

What is the result?

- A) Compilation fails due to an error on line 1.

- B) An exception is thrown at run time due to error on line 3
- C) An exception is thrown at run time due to error on line 4
- D) 1001 1002

ANS) An exception is thrown at run time due to error on line 4

QUESTION 93

ResultSet is Updatable by default(true or false)

- A) true
- B) false

ANS) false

QUESTION 94

Which isolation level prevents only dirty read in JDBC, connection class.

- A) TRANSACTION_READ_UNCOMMITTED
- B) TRANSACTION_READ_COMMITTED
- C) TRANSACTION_SERIALIZABLE
- D) TRANSACTION_REPEATABLE_READ

- A) A
- B) B
- C) C
- D) D

ANS) B

QUESTION 95

Which of the following is correct about rs.absolute(5) ,
where rs is a reference of ResultSet?

- A) Move cursor to fifth row from the end of the resultset
- B) Move cursor to the fifth row
- C) Move cursor to the sixth row
- D) runtime error

ANS) Move cursor to the fifth row

QUESTION 96

Re arrange the steps in a correct order to execute a ResultSet?

- A. Processing the ResultSet
- B. Connecting to database
- C. Executing the SQL Query
- D. Registering the driver

- A) C--->B--->D---->A
- B) C--->A--->B---->A
- C) D--->B--->C---->A
- D) B--->D--->C---->A

ANS) D--->B--->C---->A

QUESTION 97

For executing a sql query multiple times, PreparedStatement provides better performance than Statement object?

- A) true
- B) false

ANS) true

QUESTION 98

Which Statement method allows us to execute dynamic sql queries, and returns boolean value.

- A. executeUpdate();
- B. executeQuery();
- C. execute();

- A) A
- B) B
- C) C

ANS) C

QUESTION 99

```
public class JDBCdemo {
    public static void main(String[] args) {
        String sql = "select * from employee";
        try{
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con =
            DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE","HR","HR");
            Statement st = con.createStatement();
            ResultSet rs = st.executeQuery(sql);
            while(rs.next()){
                System.out.println(rs.getInt(0));
            }
        }
        catch(ClassNotFoundException |SQLException e){
            System.out.println(e.getMessage());
        }
    }
}
```

- A) null
- B) No Data Found
- C) Compilation fails
- D) Invalid column index

ANS) Invalid column index

QUESTION 100

Which Exceptions should be replaced by ? for the code to compile?

```
class Test{
    public static void main(String args[]) throws {
        try{
            Class.forName("oracle.jdbc.OracleDriver");
            Connection con = DriverManager.getConnection(
                "jdbc:oracle:oci8:@/localhost:1521/XE", "hr", "hr");
        }
    }
}
```

```
catch(? e){ }  
catch(? e){ }  
}  
}
```

- A) ClassNotFoundException,SQLException
- B) ClassCastException,SQLException
- C) Exception,SQLException
- D) ClassCastException,ClassNotFoundException

ANS) ClassNotFoundException,SQLException

QUESTION 101

What happens if you call deleteRow() on a ResultSet object?

- [A] The row you are positioned on is deleted from the ResultSet, but not from the database.
- [B] The row you are positioned on is deleted from the ResultSet and from the database
- [C] The result depends on whether the property synchronizeWithDataSource is set to true or false
- [D] You will get a compile error: the method does not exist because you can not delete rows from a ResultSet

- A) A
- B) B
- C) C
- D) D

ANS) B

QUESTION 102

What happens if you call the method close() on a ResultSet object?

- [A] the method close() does not exist for a ResultSet. Only Connections can be closed.
- [B] the database and JDBC resources are released
- [C] you will get a SQLException, because only Statement objects can close ResultSets
- [D] the ResultSet, together with the Statement which created it and the Connection from which the Statement was retrieved, will be closed and release all database and JDBC resources

- A) A
- B) B
- C) C
- D) D

ANS) B

QUESTION 103

Which of the following Interface provides method for finding the maximum number of connections that a specific driver can obtain?

- A. Database
- B. Connection
- C. DatabaseMetaData
- D. ResultSetMetaData

- A) A
- B) B
- C) C
- D) D

ANS) C

QUESTION 104

How can you execute a stored procedure in the database?

- A) Call method execute() on a CallableStatement object
- B) Call method executeProcedure() on a Statement object
- C) Call method execute() on a StoredProcedure object
- D) Call method run() on a ProcedureCommand object

ANS) Call method execute() on a CallableStatement object

QUESTION 105

Which type of Statement can execute parameterized queries?

- A) PreparedStatement
- B) ParameterizedStatement
- C) ParameterizedStatement and CallableStatement
- D) All kinds of Statements

ANS) PreparedStatement

QUESTION 106

DriverManager.getConnection(_____)?

Fill up the blank.

- A) getConnection(String url)
- B) getConnection(String url, Properties info)
- C) getConnection(String url, String user, String password)
- D) All of the above mentioned

ANS) All of the above mentioned

QUESTION 107

setAutoCommit(boolean autoCommit) is method of _____ Interface

- A) ResultSet
- B) Connection
- C) Statement
- D) HttpSession

ANS) Connection

QUESTION 108

Which result set generally does not show changes to the underlying database that are made while it is open. The membership, order, and column values of rows are typically fixed when the result set is created?

- A) TYPE_FORWARD_ONLY
- B) TYPE_SCROLL_INSENSITIVE

- C) TYPE_SCROLL_SENSITIVE
- D) ALL MENTIONED ABOVE

ANS) TYPE_SCROLL_INSENSITIVE

QUESTION 109

Which type of ResultSet can be navigated in both directions and will reflect the changes made to the underlying data in the Database?

- A) TYPE_FORWARD_ONLY
- B) TYPE_SCROLL_INSENSITIVE
- C) TYPE_SCROLL_SENSITIVE
- D) ALL MENTIONED ABOVE

ANS) TYPE_SCROLL_SENSITIVE

QUESTION 110

If conn is the Connection Object, What will happen if the following line of code gets executed:
conn.setAutoCommit(false);

- A) SQL statement is treated as a transaction and is automatically committed
- B) SQL statement is treated as a transaction and manually needs to be committed
- C) both a & b
- D) none of the above

ANS) SQL statement is treated as a transaction and manually needs to be committed

QUESTION 111

AutoCommit, rollback, Savepoint all these methods belong to _____

- A) DriverManager
- B) Connection Interface
- C) Statement
- D) ResultSet

ANS) Connection Interface

QUESTION 112

Which method of ResultSet can be used to jump to the third row in the database"

- A) rs.next(3)
- B) rs.moveTo(3)
- C) rs.getXXX(3)
- D) rs.absolute(3)
- E) none of the above

ANS) rs.absolute(3)

QUESTION 113

How to get Warning from Statement?

- A) getWarnings()
- B) getWarningsFromStatement()
- C) getNextWarning()
- D) None of the above mentioned

ANS) getWarnings()

QUESTION 114

Which type of driver converts JDBC calls into the network protocol used by the database management system directly?

- A) Type 1 driver
- B) Type 2 driver
- C) Type 3 driver
- D) Type 4 driver

ANS) Type 4 driver

QUESTION 115

How can you retrieve information from a ResultSet?

- A) By invoking the method get(..., String type) on the ResultSet, where type is the database type
- B) By invoking the method get(..., Type type) on the ResultSet, where Type is an object which represents a database type
- C) By invoking the method getValue(...), and cast the result to the desired Java type.
- D) By invoking the special getter methods on the ResultSet: getString(...), getBoolean (...), getClob(...)

ANS) By invoking the special getter methods on the ResultSet: getString(...), getBoolean (...), getClob(...)

QUESTION 116

Choose the incorrect option for Singleton pattern

- A) Provide a default Private constructor.
- B) Define a static Private object instance.
- C) The client should be independent of how the products are created
- D) Make the access method synchronized to prevent Thread problems.
- E) Override the object clone method to prevent cloning.

- A) A
- B) B
- C) C
- D) D
- E) E

ANS) C

QUESTION 117

Choose the incorrect statement about SingleThreadModel.

- A. It is used to ensure that servlet can handle only one request at a time.
- B. It is a marker interface
- C. It solves all the thread-safety issues

- A) A
- B) B
- C) C

ANS) C

QUESTION 118

Design Pattern in which we separate abstraction and its implementation?

- A) Decorator Pattern
- B) Adapter Pattern
- C) Bridge Pattern
- D) Creational Pattern

ANS) Bridge Pattern

QUESTION 119

In the Publish-Subscribe messaging model, the subscribers register themselves in a topic and are notified when new messages arrive to the topic. Which pattern does most describe this model?

- A) Adapter
- B) Notifier
- C) Observer
- D) State

ANS) Observer

QUESTION 120

It is known as Action or Transaction and is used to encapsulate a request as an object to support rollback, logging, or transaction functionality

- A) Chain of Responsibility Pattern
- B) Command Pattern
- C) Observer Pattern
- D) Strategy Pattern

ANS) Command Pattern

QUESTION 121

Iterator Pattern is a type of _____

- A) Creational Patterns
- B) Behavioral Patterns
- C) Structural Patterns

ANS) Behavioral Patterns

QUESTION 122

What are the consequences of applying the abstract factory pattern?

- A. it will be much easier to introduce new family of products
- B. it makes it easier for a certain family of objects to work together
- C. it makes it easier for the client to deal with tree-structured data
- D. it makes the designed product families exchangeable

- A) A,C
- B) C,D
- C) B,D
- D) D,A

ANS) B,D

QUESTION 123

When would you use the Singleton design pattern?

- A. to limit the class instantiation to one object
- B. to provide global access to one instance across the system
- C. to ensure that a certain group of related objects are used together
- D. to abstract steps of construction of complex objects

- A) A
- B) A,B
- C) A,B,C
- D) A,B,D

ANS) A,B

QUESTION 124

Which Design Pattern provides a way to access the elements of an aggregate object sequentially without exposing its underlying representation.

- A) Iterator
- B) Command
- C) Observer
- D) Strategy

ANS) Iterator

QUESTION 125

Which design pattern you would you use to decouple the creation procedure of a complex object from it's concrete instance to be able to apply that procedure on variety of implementations.

- A) Factory builder design pattern
- B) Method Builder design pattern
- C) Builder design pattern
- D) Factory method design pattern

ANS) Builder design pattern

QUESTION 126

Which design pattern you would you use to limit the class instantiation to one object?

- A) Builder design pattern
- B) Factory Method Design Pattern
- C) Prototype design pattern
- D) Singleton design pattern

ANS) Singleton design pattern

QUESTION 127

Which of the following pattern works as a bridge between two incompatible interfaces?

A - Builder Pattern

B - Adapter Pattern

C - Prototype Pattern

D - Filter Pattern

A) A

B) B

C) C

D) D

ANS) B

QUESTION 128

You want to create families of related objects, to be used interchangeably to configure you application. What is the most appropriate pattern to use?

A) Factory

B) Builder

C) Abstract Factory

D) Composite

ANS) Abstract Factory

QUESTION 129

Which is incorrect about AbstractFactory Pattern

A. Application should be configured with one of the multiple families of products.

B. To be compatible, objects should be created as a set.

C. These are concerned with how to form larger structures by composing classes and objects.

D. You want to provide a collection of classes, and reveal just their contracts, and relationships, not their implementations.

A) A

B) B

- C) C
- D) D

ANS) C

QUESTION 130

In Junit @Rule

TestName is invoked when _____

- A) to mark public fields of a test class
- B) test is about to start
- C) test method is running.
- D) All of the above

ANS) test is about to start

QUESTION 131

```
public class ArrayTest {  
    int[] one; int[] two;  
    @Before  
    public void first(){one= new int[]{1,2}; two= new int[]{1,2};}  
  
    @Test  
    public void test() { assertEquals(one, two);}  
}
```

What is the result of executing the above JUnit Test?

- A) Test fails as references of both the arrays are not equal
- B) Test passes
- C) Compilation fails as there is no method assertEquals in Junit
- D) Runtime exception occurs

ANS) Test passes

QUESTION 132

```
class Test{
```

```
public static void main(String[] args) {  
    int a=6,b=12;  
    for(int i=0;i<3;i++){  
        a++;b--;  
        if(a>b){  
            System.out.println("line of code");  
        }  
        else{  
            System.out.println("else block");  
        }  
    }  
}
```

How many times "line of code" will execute ?

- A) 0 times
- B) 1 time
- C) 2 times
- D) 3 times
- E) Compilation fails

ANS) 0 times

QUESTION 133

A team of programmer is involved in reviewing a proposed design for a new utility class. After some discussion, they realize that the current design allows other classes to access methods in the utility class that should be accessible only to methods within the utility class itself.

What design issue has the team discovered?

- A) Tight Coupling
- B) Low cohesion
- C) Loose Coupling
- D) Weak Encapsulation

ANS) Weak Encapsulation

QUESTION 134

```
class Animal { public String noise() { return "peep"; } }
```

```

class Dog extends Animal {
    public String noise() { return "bark"; }
}
class Cat extends Animal {
    public String noise() { return "meow"; }
}
class Test{
    public static void main(String[] args) {
        Animal animal = new Dog();
        Cat cat = (Cat)animal;
        System.out.println(cat.noise());
    }
}

```

What is the output of the above code?

- A) peep
- B) bark
- C) meow
- D) Compilation fails.
- E) An exception is thrown at runtime

ANS) An exception is thrown at runtime

QUESTION 135

```

class Animal
{
    String name = "animal";
    String makeNoise() { return "generic noise"; }
}
class Dog extends Animal
{
    String name = "dog";
    String makeNoise() { return "bark"; }
}
public class Test
{
    public static void main(String[] args)
    {
        Animal an = new Dog();
        System.out.println(an.name+" "+an.makeNoise());
    }
}

```



```
}  
}
```

- A) animal generic noise
- B) animal bark
- C) dog bark
- D) dog generic noise

ANS) animal bark

QUESTION 136

How is an abstract class represented in a class diagram?

- A) Class Name is Underlined
- B) Class Name is in Italics
- C) Class Name is in Bold
- D) Class Name is in uppercase

ANS) Class Name is in Italics

QUESTION 137

What is the output of the below code:

```
interface A{  
    void method();  
}  
  
class Test{  
    public void method(){  
        System.out.println("call from a method");  
    }  
  
    public static void main(String[] args) {  
        A a =(A) new Test();  
        a.method();  
    }  
}
```

- A) call from a method
- B) No ouput at console
- C) Compilation fails

D) Exception is thrown at Runtime

ANS) Exception is thrown at Runtime

QUESTION 138

```
abstract class MyClass{
    abstract int m();
}
interface MyInterface{
    public int m();
}
public class Test extends MyClass implements MyInterface{
    //code to execute
}
```

Which of the following lines will allow the code to execute the program?

- A) int m(){}
int m(){}
B) int m(){}
int MyInterface.m(){}
C) int m(){}
D) None of the above

ANS) int m(){}

QUESTION 139

What is the output for the below code ?

```
public interface TestInf {
    int i =10;
}
public class Test {
    public static void main(String... args) {
        TestInf.i=12;
        System.out.println(TestInf.i);
    }
}
```

- A) 10

- B) 12
- C) compile time error
- D) run time error

ANS) compile time error

QUESTION 140

Which Man class properly represents the relationship "Man has a best friend who is a Dog"?

- A) class Man extends Dog { }
- B) class Man implements Dog { }
- C) class Man { private BestFriend dog; }
- D) class Man { private Dog bestFriend; }
- E) class Man { private Dog<bestFriend>; }

ANS) class Man { private Dog bestFriend; }

QUESTION 141

Given:

- 10. interface Jumper { public void jump(); } ...
- 20. class Animal { } ...
- 30. class Dog extends Animal {
- 31. Tail tail; 32. } ...
- 40. class Beagle extends Dog implements Jumper{
- 41. public void jump() { }
- 42. } ...
- 50. class Cat implements Jumper{
- 51. public void jump() { }
- 52. }

Which three are true? (Choose three.)

- A. Cat is-a Animal
- B. Cat is-a Jumper
- C. Dog is-a Animal
- D. Dog is-a Jumper
- E. Cat has-a Animal
- F. Beagle has-a Tail
- G. Beagle has-a Jumper

- A) A,B,D
- B) AF,G
- C) B,F,G
- D) B,C,F
- E) E,F,G

ANS) B,C,F

QUESTION 142

What is the output of the below code:

```
interface I1{
    int m1();
}
class Test{
    public static void main(String[] args) {
        System.out.println(new I1(){
            public int m1() {
                return 2;
            }
        });
    }
}
```

- A) 2
- B) Class Name appended with hashCode
- C) Compilation fails
- D) Run time error

ANS) Class Name appended with hashCode

QUESTION 143

Given:

```
class One{
    public One method(){
        return this;
    }
}
class Two extends One{
```

```
public Two method(){
    return this;
}
}
public class DemoProgram extends Two{
    //Expected Code Here
}
```

A) public void method(){

}

B) public int method(){

return 3;

}

C) public One method(){

return this;

}

D) public Two method(){

return this;

}

ANS) public Two method(){

return this;

}

QUESTION 144

```
class Parent{
    void method(){
        System.out.println("Parent");
    }
}
class Child extends Parent{
    void method(){
        System.out.println("Child");
    }
    public static void main(String[] args) {
        Parent p = new Parent();
        Child c = (Child)p;
        c.method();
    }
}
```

}

- A) Child
- B) Parent
- C) Compilation fails
- D) ClassCastException thrown at runtime

ANS) ClassCastException thrown at runtime

QUESTION 145

Given:

```
interface A{}
class C{}
class D extends C{}
public class Test extends D{
    public static void main(String[] args) {
        Test t = new Test();
        if(t instanceof A){
            System.out.println("instance of A");
        }else if(t instanceof C)
        {
            System.out.println("instance of C");
        }
        else if(t instanceof D)
        {
            System.out.println("instance of D");
        }
        else{
            System.out.println("Hello World");
        }
    }
}
```

}What is the output of the below code?

- A) instance of A
instance of D
- B) instance of C
instance of D
- C) instance of C
- D) instance of C

E) Compilation Fails

ANS) instance of C

QUESTION 146

What is the syntactical error in the below code:

```
abstract class Sum{  
    abstract abc(int m,int n);  
}
```

- A) body of the method is missing
- B) class modifier needs to be changed to public
- C) method return type is missing
- D) abstract modifier near the method should be changed to public

ANS) method return type is missing

QUESTION 147

What is an actor model?

- A) An actor model can represent an external entity which communicates with the system
- B) An actor can represent a specific physical entity
- C) An Actor model can represent a role played by the User.
- D) All of the above

ANS) All of the above

QUESTION 148

1..* can be defined as_____

- A) No limit on the number of instances (including none).
- B) Zero or one instance. The notation.
- C) Exactly one instance
- D) At least one instance

ANS) At least one instance

QUESTION 149

How to represent an instance in a UML diagram

- A) underline
- B) slanted line
- C) overline
- D) Dashed line

ANS) underline

QUESTION 150

In a Sequence diagram, Slanted lines describe _____

- A) Construction of objects
- B) Destruction of object
- C) Propagation delay of messages
- D) order of messages
- E) race conditions

ANS) Propagation delay of messages

QUESTION 151

Match the Following for a Component Diagram:

- a. Component : 1) Dashed Arrows
- b. Dependencies : 2)rectangles with two tabs at the upper left.
- C . An Interface to the Component : 3)Circle and solid line

- A) a-3
b-1
c-2
- B) a-2
b-1
c-3
- C) a-1
b-2

c-3

D) a-2

b-3

c-1

ANS) a-2

b-1

c-3

QUESTION 152

Dog sub class is extending supercalss Mammal,How will represent using UML?

A) Filled diamond on side of the Super class

B) Hollow triangle shape on the superclass end of the line

C) Hollow diamond on
the Collection side

D) Hollow triangle shape on the subclass end of the line

ANS) Hollow triangle shape on the superclass end of the line

QUESTION 153

To send binary output in a response, the following method of HttpServletResponse may be used to get the appropriate Writer/Stream object. Select the one correct answer.

A) getStream

B) getOutputStream

C) getBinaryStream

D) getWriter

ANS) getOutputStream

QUESTION 154

What is the sequence of method execution in Filter?

A)init, doFilter, destroy

B)doFilter, init, destroy

C)destroy, doFilter, init

D)destroy, doFilter

- A) A
- B) B
- C) C
- D) D

ANS) A

QUESTION 155

Which Is the suitable webcomponent to perform tasks like authentication, data compression, logging and auditing?

- A) Filter
- B) Servlet
- C) JSP
- D) servlet container

ANS) Filter

QUESTION 156

Which of the following statement is true about servlet filter ?

- A)A filter is a reusable piece of code that can transform the content of HTTP requests, responses and header information.
- B)Filters do not generally create a response or respond to a request as servlets do.
- C)Filters can act on dynamic or static content.
- D)All of the above

- A) A
- B) B
- C) C
- D) D

ANS) D

QUESTION 157

Which three of the following are true about servlet filters?

- a) A filter must implement the `destroy()`
- b) A filter must implement the `doFilter()`
- c) A servlet may have multiple filters associated with it
- d) A servlet that is to have a filter applied to it must implement the `javax.servlet.FilterChain` interface
- e) A filter that is part of a filter chain passes control to the next filter in the chain by invoking the `FilterChain` forward method

- A) a,b,c
- B) c,d,e
- C) b,d,e
- D) a,d,e

ANS) a,b,c

QUESTION 158

Which two of the following statements are true?

- a) The `doFilter` method is always invoked by the container, never within a programmer's code
- b) A filter can be invoked either through being declared in `WEB.XML` or explicitly within a programmer's code
- c) Filters are associated with a URL via the filter-mapping tag
- d) Filters can be initialised via the `filter-init-param` tag in the deployment descriptor
- e) Filters can be initialised via the `init-param` tag in the deployment descriptor

- A) a,c
- B) d,e
- C) b,e
- D) c,e

ANS) c,e

QUESTION 159

interface which provides methods for responding to lifecycle events of a Web Application

- A) `ServletContextListeners`
- B) `HttpSessionListener`
- C) `ServletRequestListener`

D) All of the above

ANS) ServletContextListeners

QUESTION 160

What are the legal methods of HttpSessionBindingListener?

- A) a)sessionCreated(HttpSessionEvent se)
b)sessionDestroyed(HttpSessionEvent se)
- B) a)sessionDidActivate(HttpSessionEvent se)
b)sessionWillPassivate(HttpSessionEvent se)
- C) a)attributeAdded(HttpSessionBindingEvent event)
b)attributeRemoved(HttpSessionBindingEvent event)
c)attributeReplaced(HttpSessionBindingEvent event)
- D) a)valueBound(HttpSessionBindingEvent event)
b)valueUnbound(HttpSessionBindingEvent event)

ANS) a)valueBound(HttpSessionBindingEvent event)
b)valueUnbound(HttpSessionBindingEvent event)

QUESTION 161

Add attribute, Remove attribute , Replace attribute method are implemented from _____ Interface

- A) HttpSessionListener
- B) HttpSessionAttributeListener
- C) ServletContextListener
- D) HttpSessionActivationListener

ANS) HttpSessionAttributeListener

QUESTION 162

Which Listeners counts the number of user logged in?

- A) HttpSessionListener
- B) HttpSessionAttributeListener

- C) RequestListener
- D) ResponseListener

ANS) HttpSessionListener

QUESTION 163

Which of these is a correct example of specifying a listener element resented by MyClass class. Assume myServlet element is defined correctly. Select the one correct answer.

- A. <listener>MyClass</listener>
- B. <listener> <listener-class>MyClass</listener-class></listener>
- C. <listener> <listener-name>aListener</listener-name> <listener-class>MyClass</listener-class></listener>
- D. <listener> <servlet-name>myServlet</servlet-name> <listener-class>MyClass</listener-class></listener>

- A) A
- B) B
- C) C
- D) D

ANS) B

QUESTION 164

Which listener help to get the information about the how many user's are available currently ?

- A) HttpSession
- B) HttpSessionListener
- C) Session
- D) HttpRequest

ANS) HttpSessionListener

QUESTION 165

What is the value of the counter variable in the below code:

```
public class X implements HttpSessionBindingListener {  
    public static int counter;
```

```

public void valueBound(HttpSessionBindingEvent event) {
    counter++;
}
public void valueUnbound(HttpSessionBindingEvent event) {
    counter++;
}
}
public class TestBinding extends HttpServlet {
    public void doGet(HttpServletRequest req, HttpServletResponse res)
        throws ServletException, IOException {
        HttpSession session = req.getSession();
        X x = new X();
        session.setAttribute("name",x);
        session.setAttribute("name",new X());
        session.setAttribute("test",new X());
        session.getAttribute("name");
        session.removeAttribute("name");
    }
}

```

- A) 2
- B) 3
- C) 4
- D) 5

ANS) 5

QUESTION 166

When a session is moved from one JVM and created on another JVM in a distributed environment, Which Listener and method can be used to capture this event of session creation on another JVM and take action?

- A) sessionWillPassivate method of HttpSessionActivationListener
- B) sessionCreated method of HttpSessionListener
- C) attributeAdded method of HttpSessionAttributeListener
- D) sessionDidActivate method of HttpSessionActivationListener

ANS) sessionDidActivate method of HttpSessionActivationListener

QUESTION 167

A user types the URL `http://www.manipalglobal.com/ibm/index.html` . Which HTTP request gets generated. Choose the correct answer

- A) GET method
- B) POST method
- C) HEAD method
- D) PUT method

ANS) GET method

QUESTION 168

Consider the below form in a HTML page. The Servlet has to add 1 marks to a variable 'marks', if the student selects JAVA in the form. Which code below in the Servlets `doPost()` method will achieve this?

```
<form method="post" action="Evaluate">
  <h2>Which language is Platform independent</h2>
  <p><input type="radio" name="Q1" value="C"> C </input></p>
  <p><input type="radio" name="Q1" value="C++"> C++ </input></p>
  <p><input type="radio" name="Q1" value="JAVA"> JAVA </input></p>
  <input type="submit" value="Submit">
</form>
```

- A) `if(request.getAttribute("Q1").equals("JAVA")){marks+=1;}`
- B) `if(request.getParameter("Submit").equals("JAVA")){marks+=1;}`
- C) The form is wrong as you cannot give the same name "Q1" for all three radio buttons
- D) `if(request.getParameter("Q1").equals("JAVA")){marks+=1;}`

ANS) `if(request.getParameter("Q1").equals("JAVA")){marks+=1;}`

QUESTION 169

Name the class that has getSession method, that is used to get the HttpSession object.

- A) HttpServletRequest
- B) HttpServletResponse
- C) SessionContext
- D) SessionConfig

ANS) HttpServletRequest

QUESTION 170

Which abstract class contains init() and destroy() of a Servlet?

- A) javax.servlet.http.HttpServlet
- B) javax.servlet.GenericServlet
- C) javax.servlet.http.HttpServletRequest
- D) javax.servlet.http.HttpServletResponse

ANS) javax.servlet.GenericServlet

QUESTION 171

Which of the following separator is used to separate the url and query parameter for a Http get request?

- A) *
- B) #
- C) ?
- D) :

ANS) ?

QUESTION 172

The life cycle of a servlet is managed by

- A) JSP Engine
- B) servlet container
- C) WebServer

D) EJB Container

ANS) servlet container

QUESTION 173

The sendRedirect method defined in the HttpServlet class is equivalent to invoking the setStatus method with the following parameter and a Location header in the URL. Select the one correct answer.

- A) SC_OK
- B) SC_MOVED_TEMPORARILY
- C) SC_NOT_FOUND
- D) SC_INTERNAL_SERVER_ERROR
- E) ESC_BAD_REQUEST

- A) A
- B) B
- C) C
- D) D
- E) E

ANS) B

QUESTION 174

What is the output of the below code:

```
@WebServlet("/DemoServlet")
public class DemoServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        doPost(request,response);
    }
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        doGet(request,response);
    }
}
```

- A) No Output after execution
- B) Infinite loop causing "StackOverflowError"

- C) Compilation error
- D) None of the above

ANS) Infinite loop causing "StackOverflowError"

QUESTION 175

What is the output of the below code:

```
@WebServlet("/DemoServlet")
public class DemoServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    }
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    }
}
```

- A) No Output after execution
- B) Infinite Loop
- C) Compilation error
- D) Runtime error

ANS) No Output after execution

QUESTION 176

Which Interface does not contain `setAttribute()` and `getAttribute()`?

- A) `ServletConfig`
- B) `ServletContext`
- C) `HttpRequest`
- D) `HttpSession`

ANS) `ServletConfig`

QUESTION 177

Which of the following object access `sendRedirect()` ?

- A) request
- B) response
- C) session
- D) context

ANS) reponse

QUESTION 178

Which of the following are the session tracking techniques?

- A. URL rewriting, using HttpSession object, using response object, using hidden fields
- B. URL rewriting, using HttpSession object, using cookies, using hidden fields
- C. URL rewriting, using servlet object, using response object, using cookies
- D. URL rewriting, using request object, using response object, using session object

- A) A
- B) B
- C) C
- D) D

ANS) B

QUESTION 179

Which of the following interfaces has getWriter() method?

- A) HttpServletRequest
- B) HttpServletResponse
- C) ServletRequest
- D) ServletResponse

ANS) ServletResponse

QUESTION 180

Which of the following is the correct location of compiled class files within a war file?

- 1) /META-INF/classes

- 2) /WEB-INF/bin
- 3) /WEB-INF/bin/classes
- 4) /WEB-INF/classes
- 5) /contextroot/classes

- A) 1
- B) 2
- C) 3
- D) 4
- E) 5

ANS) 4

QUESTION 181

Which of the following protocol is used in servlet ?

- A. http
- B. https
- C. none of the above metioned
- D. both A & B

- A) A
- B) B
- C) C
- D) D

ANS) D

QUESTION 182

Servlet Instances are created by ?

- A) init()
- B) constructor
- C) Servlet Container
- D) none of the above mentioned

ANS) constructor

QUESTION 183

The sendError method defined in the HttpServlet class is equivalent to invoking the setStatus method with the following parameter. Select the one correct answer.

- A. SC_OK
- B. SC_MOVED_TEMPORARILY
- C. SC_NOT_FOUND
- D. SC_INTERNAL_SERVER_ERROR

- A) A
- B) B
- C) C
- D) D

ANS) C

QUESTION 184

Which of the following is the correct order of servlet life cycle phase methods?

- A - init(), service(), destroy()
- B - initialize(), service(), destroy()
- C - init(), execute(), destroy()
- D - init(), service(), delete()

- A) A
- B) B
- C) C
- D) D

ANS) A

QUESTION 185

cf command to deploy in load server

- A) cf.push
- B) cf.publish
- C) cf.deploy
- D) none of the above

ANS) cf.push

QUESTION 186

A JSP file that uses a tag library must declare the tag library first. The tag library is defined using the taglib directive -

```
<%@= taglib uri="..." prefix="..."%>
```

Which of the following specifies the correct purpose of prefix attribute. Select the one correct answer.

1. The prefix defines the name of the tag that may be used for a tag library.
2. The prefix attribute defines the location of the tag library descriptor file.
3. The prefix attribute should refer to the short name attribute of the tag library file that is defined by the uri attribute of taglib directive.
4. The prefix must be defined in the taglib directive and used in front of the tagname of a tag

- A) 1
- B) 2
- C) 3
- D) 4

ANS) 4

QUESTION 187

Steps for creating a Custom tag(Re-arrange)

- A. Package Tag Handlers and TLD file into tag library
- B. Write TLD file
- C. Write Tag Handlers
- D. Reference the TLD in the web-app deployment descriptor

- A) A,B,D,C
- B) D,C,B,A
- C) B,C,A,D
- D) A,C,D,B,

ANS) B,C,A,D

QUESTION 188

What gets printed when the following expression is evaluated? Select the one correct answer.

`${"5" + "4"+6+8}`

- A) 5414
- B) 5468
- C) 23
- D) 518

ANS) 23

QUESTION 189

What gets printed when the following expression is evaluated? Select the one correct answer.`$(12 % 4)`

- A) 0
- B) 3
- C) 8
- D) 16

ANS) 0

QUESTION 190

What gets printed when the following expression is evaluated? Select the one correct answer.`$(4 div 5)`

- a. 0
- b. 0.8
- c. 1
- d. -1

- A) a
- B) b
- C) c
- D) d

ANS) b

QUESTION 191

What gets printed when the following expression is evaluated? Select the one correct answer.

`${(1==2) ? 4 : 5}`

- A) 1
- B) 2
- C) 4
- D) 5

ANS) 5

QUESTION 192

What gets printed when the following code in a JSP is executed

```
<% int y = 0; %>
```

```
<% int z = 0; %>
```

```
<% for(int x=0;x<3;x++) { %>
```

```
<% z--;++y;%>
```

```
<% }%>
```

```
<% if(z<y) {%>
```

```
<%= z%>
```

```
<% } else {%>
```

```
<%= z - 1%>
```

```
<% }%>
```

- A) 3
- B) -1
- C) 2
- D) -3
- E) generates compilation error

ANS) -3

QUESTION 193

What gets printed when the following JSP code is invoked in a browser. Select the one correct answer.

```
<%= if(Math.random() < 0.5) %>
    hello
<%= } else { %>
    hi
<%= } %>
```

- A) The browser will print either hello or hi based upon the return value of random.
- B) The string hello will always get printed.
- C) The string hi will always get printed.
- D) The JSP file will not compile.

ANS) The JSP file will not compile.

QUESTION 194

When using HTML forms which of the following is true for POST method? Select the one correct answer.

- A. POST allows users to bookmark URLs with parameters.
- B. The POST method should not be used when large amount of data needs to be transferred.
- C. POST allows secure data transmission over the http method.
- D. POST method sends data in the body of the request.

- A) A
- B) B
- C) C
- D) D

ANS) D

QUESTION 195

Which of the following represents the XML equivalent of this statement

```
<%@ include file="index.jsp" %>
```

Select the one correct statement

- A) <jsp:include file="index.jsp"/>
- B) <jsp:include page="index.jsp" />
- C) <jsp:directive.include file="index.jsp"/>
- D) There is no XML equivalent of include directive.

ANS) <jsp:include page="index.jsp" />

QUESTION 196

Authentication can be done by

- A) Basic
- B) Form-Based
- C) Digest
- D) All of the above
- E) none of the above

ANS) All of the above

QUESTION 197

Choose the appropriate way to synchronize static form contents with jsp?

- A) <jsp:setProperty name="bean" property="username" />
- B) <jsp:setProperty name="bean" property="*" />
- C) <jsp:setProperty name="bean" value="test"/>
- D) None of the above

ANS) <jsp:setProperty name="bean" property="*" />

QUESTION 198

A bean with a property color is loaded using the following statement

```
<jsp:usebean id="fruit" class="Fruit"/>
```

What happens when the following statement is executed. Select the one correct answer.

```
<jsp:setProperty name="fruit" property="*" />
```

- A) This is incorrect syntax of <jsp:setProperty/> and will generate a compilation error. Either value or param must be defined.
- B) All the properties of the fruit bean are initialized to a value of null.

C) All the properties of the fruit bean are assigned the values of input parameters of the JSP page that have the same name.

D) All the properties of the fruit bean are initialized to a value of *.

A) A

B) B

C) C

D) D

ANS) C

QUESTION 199

How many numbers gets printed when the following JSTL code fragment is executed? Select the one correct answer.

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<c:set var="item" value="2"/>
<c:choose>
<c:when test="{item greaterThan 0}">
<c:out value="1"/>
</c:when>
<c:when test="{item==2}">
<c:out value="2"/>
</c:when>
<c:otherwise>
<c:out value="4"/>
</c:otherwise>
</c:choose>
```

A) No number gets printed.

B) 1

C) 2

D) 3

E) Error at the Ouput

ANS) Error at the Ouput

QUESTION 200

If in test.jsp

`\${3+2-1} : ${3+2-1}`

What is the output?

- A) `\${3+2-1} : 4`
- B) `\${3+2-1} : 4`
- C) `\${4} : 4`
- D) `\${4} : 4`

ANS) `\${3+2-1} : 4`

QUESTION 201

What are the attribute names to be specified for the tag below

`<%@ taglib _____="http://java.sun.com/jsp/jstl/core" _____="c" %>`

- A) url,uri
- B) uri,suffix
- C) uri,prefix
- D) None of the above

ANS) uri,prefix

QUESTION 202

What gets printed when the following JSTL code fragment is executed? Select the one correct answer.

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<c:set var="item" value="2"/>
<c:forEach var="item" begin="0" end="0" step="2">
<c:out value="" default="abc"/>
</c:forEach>
```

- A) The JSTL code does not compile as an attribute for forEach tag is not correct.
- B) 0
- C) 2
- D) ABC
- E) Nothing gets printed.

ANS) Nothing gets printed.

QUESTION 203

What is the output of the below code:

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<c:forEach var="item" begin="0" end="9" step="2">
${item}
</c:forEach>
```

- A) 1 2 3 4 5 6 7 8 9
- B) 1 3 5 7 9
- C) 0 2 4 6 8
- D) 0 2 4 6 8 9

ANS) 0 2 4 6 8

QUESTION 204

What is the output of the below code:

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<c:set var="j" value="4,3,2,1"/>
<c:forEach items="${j}" var="item" varStatus="status">
<c:if test="${status.first}">
<c:out value="${status.index}" default="abc"/>
</c:if>
</c:forEach>
```

- A) 0
- B) 1
- C) 2
- D) 3
- E) code does not compile

ANS) 0

QUESTION 205

Which numbers gets printed when the following JSTL code fragment is executed? Select the

correct answer.

```
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
<c:set var="j" value="4,3,2,1"/>
<c:forEach items="${j}" var="item" begin="1" end="2" varStatus="status">
<c:out value="${status.count}" default="abc"/>
</c:forEach>
```

- A. 1
- B. 2
- C. 3
- D. 4
- E. The program does not compile.

- A) A,B
- B) B,C
- C) A,C
- D) D,E
- E) C,D,E

ANS) A ,B

QUESTION 206

What is the output of the below code:

```
<c:forTokens items="One,Two,Three,Four.Five.Six" delims="," var="data">
  <c:out value="${data}"/><br/>
</c:forTokens>
```

- A) One
Two
Three
Four.Five.Six
- B) One
Two
Three
Four
Five
Six
- C) Compilation fails
- D) Run time error

ANS) One

Two

Three

Four.Five.Six

QUESTION 207

What is the output of the below code

```
<c:forTokens items="a,b,c,d,e" delims="," var="character" begin="0" end="4" step="2">
```

```
<p> <c:out value="{character}"/><p>
```

```
</c:forTokens>
```

A) c

d

e

B) a

d

e

C) a

c

e

D) b

d

e

ANS) a

c

e
