**Assessment -1**

1)If String s1=new String("Hello World") & String s2=s1.intern() then s1==s2

a) True b) False c) "Hello World" d)None

**Ans. a**

2)If String s1=new String("Hello World") & String s2=s1.intern() then s2=s2.equals(s1.intern())

a)True b) False c) Hello World d)None

**Ans.**

3)If String s1="Hello" then System.err.println(s.indexof(0))

a) 1 b) 2 c) -1 d) 0 e) H

**Ans. e**

4)If String s="Hello World" & s1="Hello" then print System.err.println(s1.containsOf(s))

a)Hello b) Hello World c) True d) False e) None

**Ans. a**

5)Which of the following gives more Perfomance

a)String b)StringBuffer c)StringBuilder d)None

**Ans. b**

6)If String s = "Java"+1+2+"Quiz"+""+(3+4); then System.err.println(s);

a)Java3Quiz7

b)Java3Quiz34

c)Java12Quiz7

d)Java12Quiz34

**Ans. c**

7)If String s = "Java String sailo" then System.out.println(s.charAt(s.toUpperCase().length()));

a)Runtime Exception

b)Prints "z"

c)Prints "Z"

d)Convert "Z" to int 90 and prints "90"

**Ans. a**

8)Select all the interfaces implemented by String class

a)Comparable

b)CharSequence

c)Cloneable

d)Serializable

**Ans. a,b**

9)Select all valid methods of String class.

a)trim()

b)intern()

c)toLower()

d)split()

**Ans. a,b,d**

10)What will be output of below statements?

String s = "Java String Sailo";

System.out.println(s.substring(5,3));

a)Prints "Str"

b)Runtime Exception IndexOutOfBoundsException

c)Runtime Exception StringIndexOutOfBoundsException

d)Compile time error

**Ans. a**

11)What will be output of below Program

public class Array {

public static void main(String[] args) {

try{

try{

try{

int arr[]= {1,2,3,4};

System.out.println(arr[10]);

}catch(ArithmeticException e){

System.out.print("Arithmetic Exception1");

}

}

catch(ArithmeticException e){

System.out.print("Arithmetic Exception2");

}

}

catch(ArithmeticException e3){

System.out.print("Arithmetic Exception3");

}

catch(Exception e5){

System.out.print("Exception");

}

catch(ArrayIndexOutOfBoundsException e4){

System.out.print("ArrayIndexOutOfBoundsException");

}

}

}

a.ArrayIndexOutOfBoundsException

b.Exception

c.run time exception

d.compile time error

e.ArithmeticException1

**Ans. a**

12)What will be output of below Program

public class Sample {

int m1(){

try{

System.out.println("hello");

return 10;

}catch(Exception e){

System.out.println("Exception");

}finally{

return 20;

}

}

public static void main(String[] args) {

Sample a=new Sample();

System.out.println(a.m1());

}

}

a.hello

b.hello10

c.20

d.hello20

e.Exception

**Ans. e**

13)What will be output of below Program

public class Sample {

int m1(){

try{

int arr[]= new int[5];

arr[10]=2;

int a=arr[10];

System.out.println(a);

return 10;

}finally{

System.out.println("java");

return 20;

}

}

public static void main(String[] args) {

sample a=new sample();

System.out.println(a.m1());

}

}

output:

a.2 10

b.2 10 java

c.2 20

d.java

e.java 20

**Ans. e**

14)What will be output of below Program

public class sample {

static void avg()

{

try

{

throw new ArithmeticException("demo");

}

catch(NullPointerException e)

{

System.out.println("Exception caught");.

}

}

public static void main(String[] args) {

sample a=new sample();

avg();

}

}

output:

a.demo

b.Exception caught

c.demo Exception caught

d.run time exception

e.compile time error

**Ans. e**

15)

public class sample {

public static void main(String[] args) {

try{

int a=10;

System.out.println(a++);

}

int b=20

catch(Exception e){

System.out.println(e);

}

}

}

output:

a.11

b.11 12

c.compile time error

d.10

**Ans. d**

16)What will be output of below Program

public class sample {

public static void main(String[] args) {

String s="java";

StringBuffer sb=new StringBuffer("java");

if(s==sb){

System.out.println("equal");

}

else{

System.out.println("not equal");

}

}

}

output:

a.equal

b.not equal

c.compile time error

d.run time exception

**Ans. c**

17)What will be output of below Program

class sample

{

public static void main(String args[])

{

String a = dsv0;

System.out.println(a);

System.exit(0);

System.out.println("hello);

}

}

output:

a.dsv0

b.compile time error

c.dsv0 hello

d.run time error

**Ans. b**

18)What is the output of this program?

class output

{

public static void main(String args[])

{

StringBuffer sb=new StringBuffer("Hello");

sb.replace(1,3,"Java");

System.out.println(sb);

}

}

a) Hello java

b) Hellojava

c) HJavalo

d) Hjava

**Ans. d**

19)class a{

public static void main(String [] args){

int a=10,b=10;

for(int i=0;i<5;i++){

if(++a>2||++b>2){

a++;

}

}

System.out.println("a= "+a+" b="+b);

}

}

a)a=20 b=15

b)a=20 b=10

c)a=19 b=16

d)a=21 b=14

**Ans. a**

20)

public class A {

B b;

int m1(int a )

{

return new B(a).m2() ;

}

}

public class B {

int b;

B(int b){

this.b=b;

}

int m2()

{

System.out.println("hello");

return b;

}

}

public class Test {

public static void main(String[] args) {

A t=new A();

t.m1(10);

}

}

A)10 B)Hello C)Hello,10 D)Compile Time Error

**Ans. d**

============================================================

21)public class A {

B b;

int m1(int a )

{

return new B(a).m2() ;

}

}

public class B {

int b;

int m2()

{

System.out.println("Java");

return b;

}

}

public class Test {

public static void main(String[] args) {

A t=new A();

t.m1(55);

}

}

A)55 B)Java C)Java,55 D)Compile Time Error

**Ans. d**

===============================================

22)public class A {

static int a=10;

{

a++;

}

public int m1(){

return ++a;

}

}

public class Test {

public static void main(String[] args) {

A t=new A();

A t1=new A();

System.out.print(A.a+","+t.m1());

}

}

A)10,11 B)12,12 C)11,12 d)12,13

**Ans. d**

===============================================

23)public class A {

static int a=10;

{

a++;

}

public int m1(){

return a++;

}

}

public class Test {

public static void main(String[] args) {

A t=new A();

A t1=new A();

System.out.println(A.a);

System.out.println(t.m1());

}

}

A)10,11 B)12,12 C)11,12 d)12,13

**Ans. b**

===============================================

24)public class A {

int a=10;

{

a++;

}

public int m1(){

return a++;

}

}

public class Test {

public static void main(String[] args) {

A t=new A();

A t1=new A();

System.out.println(A.a);

System.out.println(t.m1());

}

}

A)10,11 B)12,12 C)11,12 d)12,13

**Ans. b**

===============================================

25)public class A {

int a=10;

A(){

a++;

}

A(int q){

a--;

}

public int m1(){

return ++a;

}

}

public class Test {

public static void main(String[] args) {

A t=new A();

A t1=new A(10);

System.out.println(t.a);

System.out.println(t1.m1());

}

}

A)10,11 B)11,11 C)11,10 d)12,13

**Ans. a**

===============================================

26)public class A {

public int m1(int a,int b){

return 20;

}

public void m2(){

System.out.println("Parent");

}

}

public class B extends A {

int m1()

{

return 10;

}

public void m2(){

System.out.println("Child");

}

}

public class Test {

public static void main(String[] args) {

A t=new B();

t.m2();

System.out.println(t.m1());

}

}

A)Child,10 B)parent,10 c)Child,20 d)Compile Time Error

**Ans.**  d

===============================================

27)public class A {

public boolean m1(){

boolean b;

if(b){

b=false;

}else{

b=true;

}

return b;

}

}

public class Test {

public static void main(String[] args) {

A a=new A();

System.out.println(a.m1());

}

}

A)false b)true c)Compile Time Error D)Run Time Error

**Ans. c**

===============================================

28)public class A {

public void m1(int a,int b){

System.out.println("classA");

}

public void m2(){

System.out.println("Parent");

}

}

public class B extends A {

void m1()

{

System.out.println("ClassB m1()");

}

public void m2(){

System.out.println("classB");

}

}

public class C extends B{

public void m1(String a){

System.out.println("classC");

}

}

public class Test {

public static void main(String[] args) {

C c=new C();

B b=(B)c;

b.m1();

b.m2();

A b=(A)b;//complie line 1

b.m1("Hello");//complie line2

b.m1();//complie line 3

//t.m1();

}

A) compilation error at line 1

B)compilation error at line 2

c)compilation error at line 3

**Ans. b**

29)class selection\_statements

{

public static void main(String args[])

{

int var1 = 5;

int var2 = 6;

if ((var2 = 1) == var1)

System.out.print(var2);

else

System.out.print(++var2);

}

}

a) 1

b) 2

c) 3

d) 4

**Ans. b**

===============================================

30)What is the output of this program?

class jump\_statments

{

public static void main(String args[])

{

int x = 2;

int y = 0;

for ( ; y < 10; ++y)

{

if (y % x == 0)

continue;

else if (y == 8)

break;

else

System.out.print(y + " ");

}

}

}

a) 1 3 5 7

b) 2 4 6 8

c) 1 3 5 7 9

d) 1 2 3 4 5 6 7 8 9

**Ans. a**

===============================================

31. What will be the output of the following program?

class Test {

public

static void main(String[] args)

{

int i = 0, j = 9;

do {

i++;

if (j-- < i++) {

break;

}

} while (i < 5);

System.out.println(i + "" + j);

}

}

Options:

1.44

2.55

3.66

4.77

**Ans. 3**

32)Which concept of Java is achieved by combining methods and attribute into a class?

a) Encapsulation

b) Inheritance

c) Polymorphism

d) Abstration

**Ans. d**

33) What is it called where child object gets killed if parent object is killed?

a) Aggregation

b) Composition

c) Encapsulation

d) Association

**Ans. a**

34)HAS-A relationships are based on inheritance, rather than usage.

a)True b) False

**Ans. a**

35)The relation between Car and Owner or BankAccount and Customer is example for

a)Aggregation b)Composition c)Association d) None

**Ans. e**

36)public class Test {

public static String toString(){

System.out.println("Test toString called");

return "";

}

public static void main(String args[]){

System.out.println(toString());

}

}

a)Compile time error

b)"Test toString called"

c)"Test@7fh2bd8" (Object class toString() method is being called)'

d)None

**Ans. b**

37)interface Foo{

int x = 10;

}

public class Test {

public static void main(String[] args) {

Foo.x = 20;

System.out.println(Foo.x);

}

}

a)Compile Time Error

b)Prints 10

c)Prints 20

d)Runtime error because Foo.x is final.

**Ans. a**

38)Which of the following statements are true about Enum in java?

a)Java enum can implement interfaces.

b)All java enum implicitly extends java.lang.Enum class.

c)Enums can't be used in switch statements.

d)Enum constants are implicitly static and final.

e)We can create instance of enum using new operator.

**Ans. d**

39)Can we use super keyword in static method of a sub class for calling parent class method? ? If yes Justify?

**Ans.**

40)Can we access parent class variables in child class with Same variable name and same datatype ? If yes Justify?

**Ans. Yes, by using super keyword.**

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PROGRAMS

41. write a program to get pattern like below

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42) write a program to get pattern like below

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0100000

0020000

0003000

0000400

0000050

0000006

43)If String s1="Buffer" & String s2="Buider" compare two strins & Store Duplicate Charcters in String s3 & Store Differnt Charcters in String s4

44)Write a program for Swapping of two variables without using third vari

-----45)Write a program to sort given string String s="Training

46)Write a program for given string is palindrome or not. If it is Palindrome then print vowels in that string. By Using Scanner.

47)write a program to print prime numbers between 1 to 100;

----48)write a custom class of immutable?

49)write a program to create a custom exception and throw that exception when NullPointer is raised

50)Write a program for sum of all digits in a number by dynamic input? Ex:1234567 output will be=1+2+3+4+5+6+7=28