



Name:

Enrolment No:

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2020

Course: Object Oriented Programming**Semester: IV****Course Code: CSEG216****Time: 2 Hours****Programme: B TECH (CSE) OSSOS****Max. Marks: 100****Instructions: (i) There are 60 MCQs in this exam.****(ii) No Negative marking**

Select: All None Select by Type:

- Question Type -

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Points

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Hide Question Details

**1. Multiple Choice: CO1: What is the return type of Constructors?**

Points: 1

Question	What is the return type of Constructors?
Answer	<input checked="" type="checkbox"/> none of the mentioned <hr/> <input type="checkbox"/> int <hr/> <input type="checkbox"/> float <hr/> <input type="checkbox"/> void

2. Multiple Choice: CO2:

Points: 2

Question

What is the output for the below code ?

```
public class D {  
    int i;  
    int j;  
    public D(int i,int j){  
        this.i=i;  
        this.j=j;  
    }  
  
    public void printName() {  
        System.out.println("Name-D");  
    }  
  
}
```

```
1. public class Test{  
2.     public static void main (String[] args){  
3.         D d = new D();  
4.         d.printName();  
5.  
6.     }  
7. }
```

Answer

Name-D

Compilation fails due to an error on lines 3

Compilation fails due to an error on lines 4

Compilation succeed but no output

3. Multiple Choice: CO1 Pick correct answer:

Points:

Question

```
public static void main(String args[]) {  
    int x,y;  
    x = 3 & 5;  
    y = 3 | 5;  
    System.out.println(x + " " + y);  
}
```

Answer

1 3

1 5

✔ 17

35

✔ 4. Multiple Choice: CO1:

Points: 2

Question

```
1. class MyClass {
2. public void message (int i) {
3. public int j= i;
4. System.out.println("Value of j: " + j);
5. }
6. public static void main(String[] args) {
7. MyClass ma = new MyClass();
8. ma.message(15);
9. }
10. }
```

Which of the following statements is true about this code?

Answer

The code will compile and execute fine, and the output will be Value of j: 15

✔ Line 3 will generate a compiler error.

The code will compile but will give an error at execution time.

None of the above

✔ 5. Multiple Choice: CO1 Chose correct option:

Points: 2

Question

```
class Test {
    public static void main(String args[]) {
        int arr[] = new int[2];
        System.out.println(arr[0]);
    }
}
```

Answer

The program does not compile because arr[0] is being read before being initialized

The program generates a runtime exception because arr[0] is being read before being initialized

The program compiles and prints 0 when executed

The program compiles and prints 1 when executed

6. Multiple Choice: CO1: what is the correct way of getting th...

Points: 1

Question	what is the correct way of getting the number of elements from one-dimensional array 'arr'.
Answer	<p>arr.size</p> <p><input checked="" type="checkbox"/> arr.length</p> <p>arr.length()</p> <p>arr.length()-1</p>

7. Multiple Choice: CO1: What is true about constructor?

Points: 1

Question	What is true about constructor?
Answer	<p><input checked="" type="checkbox"/> It can take any number of parameters</p> <p>It can contain return type</p> <p>It can have any non access modifiers</p> <p>Constructor cannot throw exception</p>

8. Multiple Choice: CO1: What is the process of defining more ...

Points: 1

Question	
----------	--

What is the process of defining more than one method in a class differentiated by method signature?

Answer

Function overriding

Function overloading

Function doubling

None of the mentioned

9. Multiple Choice: CO1: Which concept of Java is achieved by ...

Points: 1

Question

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

Answer

Abstraction

Polymorphism

Inheritance

Encapsulation

10. Multiple Choice: CO1: " Decrement operator, ??, decreases v...

Points: 1

Question

" Decrement operator, ??, decreases value of variable by what number?"

Answer

3

2

1

4

11. Multiple Choice: CO-1:

Points: 2

Question

What is the output for the below code ?

```
1. public class Test {  
2.     public static void main(String[] args) {  
3.         byte i = 128;  
4.         System.out.println(i);  
5.     }  
6. }
```

Answer

128

0

Compilation fails with an error at line 3

Compilation fails with an error at line 4

12. Multiple Choice: CO1: How many identifiers are present in t...

Points: 1

Question

How many identifiers are present in the following program?

```
class Student  
{  
    public static void main(String args[])  
    {  
        int x=10;  
    }  
}
```

Answer

1

2

4

5

13. Multiple Choice: CO1: How many characters are allowed in ja...

Points: 1

Question

How many characters are allowed in java for identifiers?

Answer

32

64

512

No Limit

14. Multiple Choice: CO-1 ::

Points: 2

Question

What is the output for the below code ?

```
1. public class Test {
2.     public static void main(String... args) {
3.         Integer i = 34;
4.         String str = (i<21)?"jan":(i<56)?"feb":"march";
5.         System.out.println(str);
6.     }
7. }
```

Answer

feb

jan

march

Compilation fails with an error at line 4

15. Multiple Choice: CO2:

Points: 2

Question

What is the output for the below code ?

```
1. public class Test {
2.     public static void main(String... args) {
3.         int [] index = new int[5];
4.         System.out.println(index instanceof Object);
5.     }
6. }
```

Answer

Compilation fails with an error at line 3

Compilation fails with an error at line 4

true

.....
false

16. Multiple Choice: CO2: Which access modifier makes a member...

Points: 1

Question Which access modifier makes a member available only to classes within the same package or subclasses?

Answer public

.....
private

protected

.....
none

17. Multiple Choice: CO2: Which of these is correct way of inhe...

Points: 1

Question Which of these is correct way of inheriting class A by class B?

Answer class B extends class A {}

.....
class B extends A {}

.....
class B inherits class A {}

.....
class B + class A {}

18. Multiple Choice: CO2: In implementing two classes Employee ...

Points: 1

Question In implementing two classes Employee and Manager, such that each Manager is an Employee, what should be the relationship between these classes. Select the one correct answer.

Answer Employee should be the base class of Manager class.

.....
Manager should be the base class of Employee class.

Manager class should include the Employee class as a data member.

Employee class should include Manager class as a data member.

19. Multiple Choice: CO2: Which of these keyword must be used t...

Points: 1

Question Which of these keyword must be used to inherit a class?

Answer

extends

.....
extent

.....
this

.....
super

20. Multiple Choice: CO2:

Points: 3

Question

~~What is the output for the below code ?~~

```
public class A {
    public A(){
        System.out.println("A");
    }
    public A(int i){
        this();
        System.out.println(i);
    }
}

public class B extends A{
    public B (){
        System.out.println("B");
    }
    public B (int i){
        this();
        System.out.println(i+3);
    }
}

public class Test{

    public static void main (String[] args){
        new B(5);
    }
}
```

Answer

A B 8

A 5 B 8

A B 5

B 8 A 5

✓ 21. Multiple Choice: CO2: What is the result of the following j...

Points: 2

Question

What is the result of the following java program?

```
abstract class Writer {
    public static void write() {
        System.out.println("Writing...");
    }
}
class Author extends Writer {
    public static void write() {
        System.out.println("Writing book");
    }
}
public class Programmer extends Writer {
    public static void write() {
        System.out.println("Writing code");
    }
}
public static void main(String[] args) {
    Writer w = new Programmer();
    w.write();
}
```

Answer

Writing book

Writing...

Writing code

Compile Time Error

✓ 22. Multiple Choice: CO3 Chose correct option:

Points: 2

Question

- a. A Java program must have a package statement.
- b. A package statement if present must be the first statement of the program (barring any comments).
- c. If a Java program defines both a package and import statement, then the import statement must come before the package statement.
- d. An empty file is a valid source file.
- e. A Java file without any class or interface definitions can also be compiled.
- f. If an import statement is present, it must appear before any class or interface definitions.

Answer a,b,d,f

b,d,e,f

a,c,d,e

a,b,c,d

23. Multiple Choice: CO3:

Points: 3

Question

What is the output for the below code ?

```
import java.io.FileNotFoundException;

public class A {
    public void printName() throws FileNotFoundException {
        System.out.println("Value-A");
    }
}

public class B extends A{
    public void printName() throws NullPointerException{
        System.out.println("Name-B");
    }
}

public class Test{
    public static void main (String[] args) throws Exception{
        A a = new B();
        a.printName();
    }
}
```

Answer Value-A

Compilation fails-Exception NullPointerException is not compatible with throwsclause in A.printName()

Name-B

Compilation succeed but no output

✓ 24. Multiple Choice: CO3:

Points: 2

Question

```
Integer w1 = new Integer(2);
Integer w2 = new Integer(2);
if(w1 == w2)
{
System.out.println("w1 is equal to w2!");
}
else
{
System.out.println("w1 is not equal to w2!");
}
What is the output of this code?
```

Answer

Compiler error

Runtime error

w1 is equal to w2!

w1 is not equal to w2!

✓ 25. Multiple Choice: CO3: What is the output of the following p...

Points: 2

Question

What is the output of the following program?

```
class Test
{
    public static void main(String args[])
    {
        try
        {
            int i, sum;
            sum = 10;
            for (i = -1; i < 3 ;++i)
            {
                sum = (sum / i);
                System.out.print(i);
            }
        }
        catch(ArithmeticException e)
        {
            System.out.print("0");
        }
    }
}
```

Answer

101

-10

10

-11

Points: 3



26. Multiple Choice: CO3 What all gets printed when the following gets compiled: a. 0 b. ...

Question

```

public class test {
    public static void main(String args[]) {
        int i=1, j=1;
        try {
            i++;
            j--;
            if(i == j)
                i++;
        }
        catch(ArithmeticException e) {
            System.out.println(0);
        }
        catch(ArrayIndexOutOfBoundsException e) {
            System.out.println(1);
        }
        catch(Exception e) {
            System.out.println(2);
        }
        finally {
            System.out.println(3);
        }
        System.out.println(4);
    }
}

```

- a. 0
- b. 1
- c. 2
- d. 3
- e. 4

Answer

a,c,d

a,b,c

a,b

d,e

27. Multiple Choice: CO3: Select the one most appropriate answer...

Points:

Question

Select the one most appropriate answer. What is the purpose of method parseInt defined in Integer class.

Answer

The method converts an integer to a String.

The method is used to convert String to an integer, assuming that the String represents an integer.

The method is used to convert String to Integer class, assuming that the String represents an integer.

The method converts the Integer object to a String.

28. Multiple Choice: CO3: "Using which of the following, multip...

Points: 1

Question	"Using which of the following, multiple inheritance in Java can be implemented?"
Answer	<p>Multithreading</p> <hr/> <p><input checked="" type="checkbox"/> Interfaces</p> <hr/> <p>Protected methods</p> <hr/> <p>Private methods</p>

29. Multiple Choice: CO3:

Points: 2

Question	<p>What is the output for the below code ?</p> <pre>1. public interface InfA { 2. protected String getName(); 3. } public class Test implements InfA{ public String getName(){ return "test-name"; } public static void main (String[] args){ Test t = new Test(); System.out.println(t.getName()); } }</pre>
Answer	<p>test-name</p> <hr/> <p><input checked="" type="checkbox"/> Compilation fails due to an error on lines 2</p> <hr/> <p>Compilation fails due to an error on lines 1</p>

Compilation succeed but Runtime Exception

30. Multiple Choice: CO3: Which of the following are the wrapper classes?

Question	Which of the following are the wrapper classes? i) Random ii) Byte iii) Vector v) Integer
Answer	<p>"1 ,2 and 3"</p> <p>"2,3 and 4"</p> <p><input checked="" type="checkbox"/> "1,3 nd 4"</p> <p>None of the mentioned</p>

31. Multiple Choice: CO3: Which of the following keywords are valid that are used in java exception handling?

Question	Which of the following keywords are valid that are used in java exception handling?
Answer	<p>try, catch, thrown</p> <p>try, catch, final</p> <p><input checked="" type="checkbox"/> catch, throw, throws</p> <p>try, finally, thrown</p>

32. Multiple Answer: CO4: What will be answer of the following ...

Question	<p>What will be answer of the following java program:</p> <pre>class Test { public static void main(String args[]) { String s1="UPES"; String s2="UPES"; System.out.println(s1==s2); System.out.println(s1.equals(s2)); } }</pre>
Answer	<p><input checked="" type="checkbox"/></p>

true
true

true
false

false
true

false
false

33. Multiple Choice: CO4: What will be the answer of the follow...

Points: 2

Question

What will be the answer of the following java program:

```
1. class Test{  
2. public static void main(String args[]){  
3. String s1="Object";  
4. s1=s.concat(" Oriented");  
5. System.out.println(s1);  
6. }  
7. }
```

Answer

Object

Object Oriented

Oriented

Oriented Object

34. Multiple Choice: CO4:

Points: 3

Question

What will happen when you attempt to compile and run the following code ?

```
class A implements Runnable{
    public void run(){
        System.out.println("run-A");
    }
}

1. public class Test {
2.     public static void main(String argv[]){
3.         A a = new A();
4.         Thread t = new Thread(a);
5.         System.out.println(t.isAlive());
6.         t.start();
7.         System.out.println(t.isAlive());
8.     }
9. }
```

Answer

false run-A true

false run-A false

true run-A true

Compilation fails due to an error on line 7

35. Multiple Choice: CO4: Which of these class is used to crea...

Points: 1

Question

Which of these class is used to create an object whose character sequence is immutable?

Answer

String

StringBuffer

StringBuilder

None of these

36. Multiple Choice: CO4:

Points: 3

Question

What is the output for the below code ?

```
class A implements Runnable{
    public void run(){
        try{
            for(int i=0;i<4;i++){
                Thread.sleep(100);

                System.out.println(Thread.currentThread().getName());
            }
        }catch(InterruptedException e){

        }
    }
}

public class Test {
    public static void main(String argv[]) throws Exception{
        A a = new A();
        Thread t = new Thread(a,"A");
        Thread t1 = new Thread(a,"B");
        t.start();
        t.join();
        t1.start();
    }
}
```

Answer

A A A B B B B

A B A B A B A B

Output order is not guaranteed

Compilation succeed but Runtime Exception



37. Multiple Choice: CO4 Which of the below code inserted at line 4, compile and produce the output "A.A1"?:

Points: 2

Question

```
class A {
    class A1 {
        void printValue() {
            System.out.println("A.A1");
        }
    }
}
```

```
1. public class Test{
2.     public static void main (String[] args){
3.         A a = new A();
4.         // INSERT CODE
5.         a1.printValue();
6.     }
7. }
```

Answer

A.A1 a1 = new A.A1();

A.A1 a1 = a.new A1();

A a1 = new A.A1();

All of the above

38. Multiple Choice: CO4:

Points: 3

Question

What is the output for the below code ?

```
class A extends Thread{
    int count = 0;
    public void run(){
        System.out.println("run");
        synchronized (this) {
            for(int i =0; i < 50 ; i++){
                count = count + i;
            }
            notify();
        }
    }
}

public class Test{

    public static void main(String argv[] ) {
        A a = new A();
        a.start();
        synchronized (a) {
            System.out.println("waiting");
            try{
                a.wait();
            }catch(InterruptedException e){

            }
            System.out.println(a.count);
        }
    }
}
```

Answer

waiting run 1225

waiting run 0

waiting run and count can be anything

Compilation fails

39. Multiple Choice: CO4:

Points: 3

Question

What is the output for the bellow code?

```
import java.util.Iterator;
import java.util.Set;
import java.util.TreeSet;

public class Test {
    public static void main(String... args) {

        Set s = new TreeSet();
        s.add("7");
        s.add(9);
        Iterator itr = s.iterator();
        while (itr.hasNext())
            System.out.print(itr.next() + " ");

    }
}
```

Answer

Compile error

Runtime Exception

7 9

None of the above

40. Multiple Choice: CO4:

Points:

Question

What is the output for the below code?

```
import java.util.Iterator;
import java.util.TreeSet;

public class Test {
    public static void main(String... args) {

        TreeSet s1 = new TreeSet();
        s1.add("one");
        s1.add("two");
        s1.add("three");
        s1.add("one");

        Iterator it = s1.iterator();
        while (it.hasNext() ) {
            System.out.print( it.next() + " " );
        }

    }
}
```

Answer

Runtime Exception

one three two

one three two one

one two three

41. Multiple Choice: CO4:

Points: 2

Question

What would happen when a thread executes the following statement in its run() method?
sleep(500);

Answer

It is going to stop execution and restart execution exactly after 500 milliseconds.



It is going to stop execution and restart execution not earlier than 500 milliseconds.

It will result in compiler error because sleep () method cannot be called inside run () method.

It will result in compiler error because the sleep () method does not take any argument.

42. Multiple Choice: CO4: Which of the following statements is ...

Points: 1

Question	Which of the following statements is false?
Answer	<p>A set is a collection that does not allow duplicates.</p> <p>A map can store duplicate values.</p> <p>A list is a collection that is ordered by index.</p> <p><input checked="" type="checkbox"/> A list is a collection that cannot have duplicates.</p>

43. Multiple Choice: CO4:

Points: 1

Question	Which collection class grows or shrinks its size and provides indexed access to its elements, but methods are not synchronized?
Answer	<p><input checked="" type="checkbox"/> java.util.ArrayList</p> <p>java.util.List</p> <p>java.util.vector</p> <p>java.util.HashSet</p>

44. Multiple Choice: CO5: Which of the following is not a valid...

Points: 1

Question	Which of the following is not a valid type of statement in JDBC?
Answer	Statement

QueryStatement

PreparedStatement

None of these

45. Multiple Choice: CO4: What will happen if two thread of the...

Points: 1

Question What will happen if two thread of the same priority are called to be processed simultaneously?

Answer

Anyone will be executed first lexographically

Both of them will be executed simultaneously

It is dependent on the operating system

None of them will be executed

46. Multiple Choice: CO4: How can Thread go from waiting to run...

Points: 1

Question How can Thread go from waiting to runnable state?

Answer

notify/notifAll

When sleep time is up

Using resume() method when thread was suspended

All

47. Multiple Choice: CO4: What is difference between starting t...

Points: 1

Question What is difference between starting thread with run() and start() method?

Answer

There is no difference

run() calls start() method internally

"When you call start() method, main thread internally calls run() method to start newly created Thread"

None

48. Multiple Choice: CO4: Which of these is not a Thread state?

Points: 1

Question	Which of these is not a Thread state?
Answer	<p>new</p> <hr/> <p>runnable</p> <hr/> <p><input checked="" type="checkbox"/> sleep</p> <hr/> <p>terminated</p>

49. Multiple Choice: CO5: Which tag doesn't belongs to web.xml?

Points: 1

Question	Which tag doesn't belongs to web.xml?
Answer	<p><input checked="" type="checkbox"/> url-pattern</p> <hr/> <p>welcome-file-list</p> <hr/> <p>servlet</p> <hr/> <p>servlet-mapping</p>

50. Multiple Choice: CO5: An application programming interface ...

Points: 1

Question	An application programming interface (API) is defined by Java _____ specification that enables the communication between the Web server and the application program.
Answer	<p>Server</p> <hr/> <p><input checked="" type="checkbox"/> Servlet</p> <hr/> <p>JDBC</p>

Web Container

51. Multiple Choice: CO5: A Java Server Page (JSP)...

Question	A Java Server Page (JSP) is transformed into-
Answer	<p>Java Applet</p> <hr/> <p><input checked="" type="checkbox"/> Java Servlet</p> <hr/> <p>Both Java Applet and Servlet</p> <hr/> <p>It directly executes without conversion.</p>

52. Multiple Choice: CO5: Which type of driver is preferred if ...

Question	Which type of driver is preferred if our Java application needs to access multiple types of databases at the same time?
Answer	<p>Type 1</p> <hr/> <p>Type 2</p> <hr/> <p><input checked="" type="checkbox"/> Type 3</p> <hr/> <p>Type-4</p>

53. Multiple Choice: CO5: Identify the legal JSP syntax for pri...

Question	Identify the legal JSP syntax for printing the value of a.
Answer	<p><code><%= a; %></code></p> <hr/> <p><input checked="" type="checkbox"/> <code><%int a = 1;%></code></p> <hr/> <p><code><%int a = 1%></code></p> <hr/> <p>All the statements are legal JSP syntax</p>

54. Multiple Choice: CO5 What will be the output of the following code?:

Question

```
<% int x = 5; %>
<%! int x = 10; %>
<%! int y = 50; %>
The value of b multiplied by a is <%= y * x %>
```

Answer

500

250

error

0

55. Multiple Choice: CO5: Suppose the following Java code execu...

Points: 1

Question

Suppose the following Java code executes properly, what is the result?

```
try
{
    Connection con = DriverManager.getConnection(url, username, pwd)
    Statement stmt = con.createStatement();
    System.out.print(stmt.executeUpdate("INSERT INTO Emp VALUES (101,'Peter')");
}
}
```

Answer

true

1

false

0

56. Multiple Choice: CO2: What is the output of the following j...

Points: 2

Question

What is the output of the following java program?

```
class FTest {  
public static void main(String args[])  
{  
final int i;  
i = 70;  
i = 70;  
System.out.println(i);  
}  
}
```

Answer

Compile Time Error

Garbage value

70

0

57. Multiple Choice: CO2: what is the output of this program?

Points: 3

Question

what is the output of this program?

```
class Teststatic {  
static int x = 10;  
public static void main(String[] args)  
{  
    Teststatic t1 = new Teststatic();  
    Teststatic t2 = new Teststatic();  
  
    t1.x = 20;  
    System.out.print(t1.x + " ");  
    System.out.println(t2.x);  
}  
}
```

Answer

20 10

20 20

10 10

58. Multiple Choice: CO5: Which statements about JDBC are true?...

Points: 3

Question Which statements about JDBC are true?

- a. JDBC is an API to connect to relational-, object- and XML data sources
- b. JDBC stands for Java DataBase Connectivity
- c. JDBC is an API to access relational databases, spreadsheets and flat files
- d. JDBC is an API to bridge the object-relational mismatch between OO programs and relational databases.
- e. java.sql and javax.sql packages contain the JDBC classes.
- f. A JDBC DataSource is a factory of connections to a physical data source

Answer All statements are true

b,c, d, e,f

b,c,e,f

a,b,e,f

59. Multiple Choice: CO5:

Points: 3

Question Choose correct answers

1. Servlet is a Java technology based Web component.
2. `session.retrieveAttribute(String name)` is used to get an attribute in a HTTP Session object in servlets?
3. Servlets execute within the address space of web server
4. Servlets execute within the address space of web browser
5. Servlets are platform-independent because they are written in java

Answer 1,2,3,5

1,3,5

1,4,5

1,2,4

60. Multiple Choice: CO3:

Points: 2

Question

Choose correct answers

- 1) Every class is part of some package.
- 2) All classes in a file are part of the same package.
- 3) If no package is specified, the classes in the file go into a special unnamed package
- 4) If no package is specified, a new package is created with

Answer

ONLY 1,2, AND 3

ONLY 1,2, AND 4

ONLY 4

ONLY 1 AND 3

Select: All None Select by Type:

- Question Type - ▼

Delete and Regrade

Points

Update and Regrade

Hide Question Details

← OK