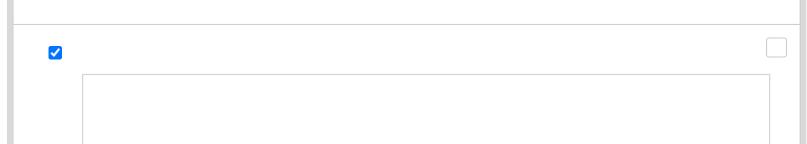
Χ

Name:	UPES
Enrolment No:	U OPES
	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 Se	elect by Type: - Question Type -
	ade Points Update and Regrade Hide Question Details



2. Multiple Choice: CO2:

Points: 2

```
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");
                          }
                }

    public class Test{

                         public static void main (String[] args) {
                2.
                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:

35

✓ 4. Multiple Choice: CO1:

Points: 2

```
Question

 class MyClass {

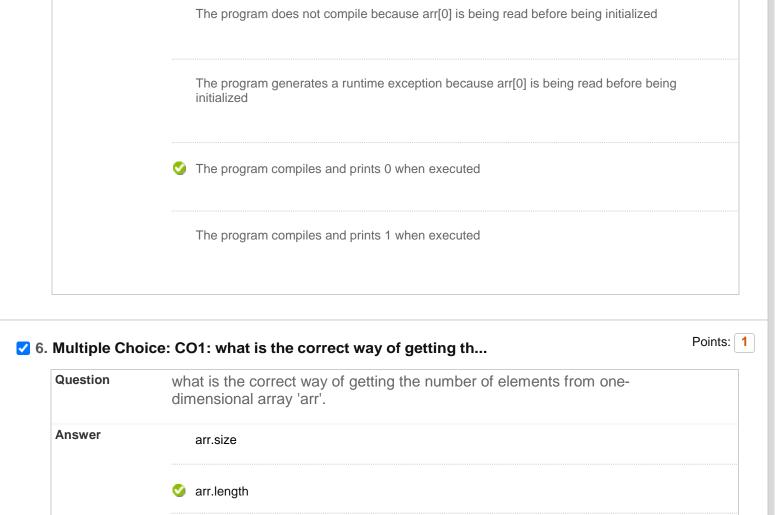
                    2. public void message (int i) {
                    3. public int j= i;
                    4. System.out.println("Value of j: " + j);
                    6. public static void main(String[] args) {
                    MyClass ma = new MyClass();
                    8. ma.message(15);
             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

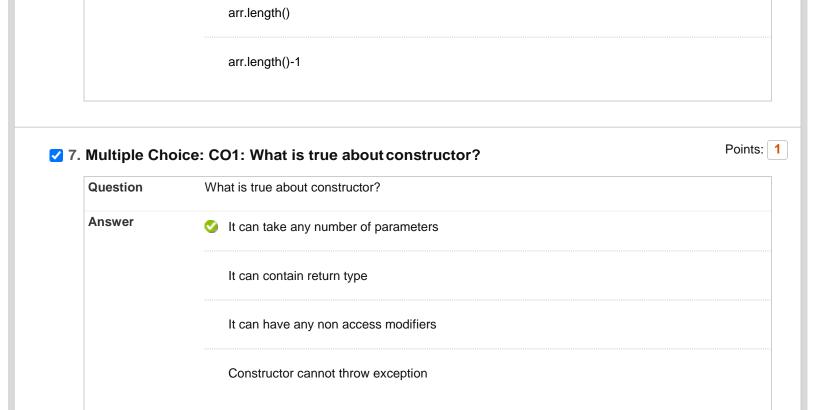
▼ 5. Multiple Choice: CO1 Chose correct option:

Points: 2

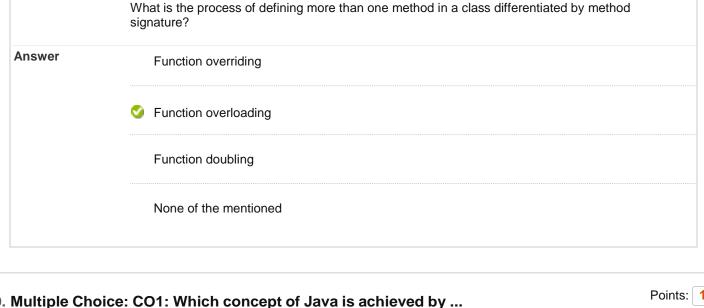
```
Question class Test {
          public static void main(String args[]) {
               int arr[] = new int[2];
               System.out.println(arr[0]);
          }
}
```

Answer

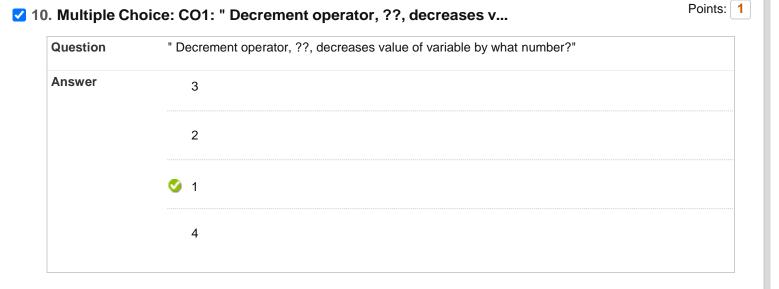


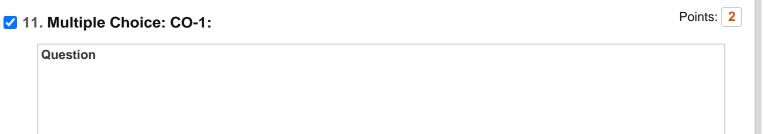


✓ 8. Multiple Choice: CO1: What is the process of defining more ...



Multiple Cho	oice: CO1: Which concept of Java is achieved by	oints
Question	Which concept of Java is achieved by combining methods and attribute into a class?	
Answer	Abstration	
	Polymorphism	
	Inheritance	





```
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

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

```
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...

```
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 {
                        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
```

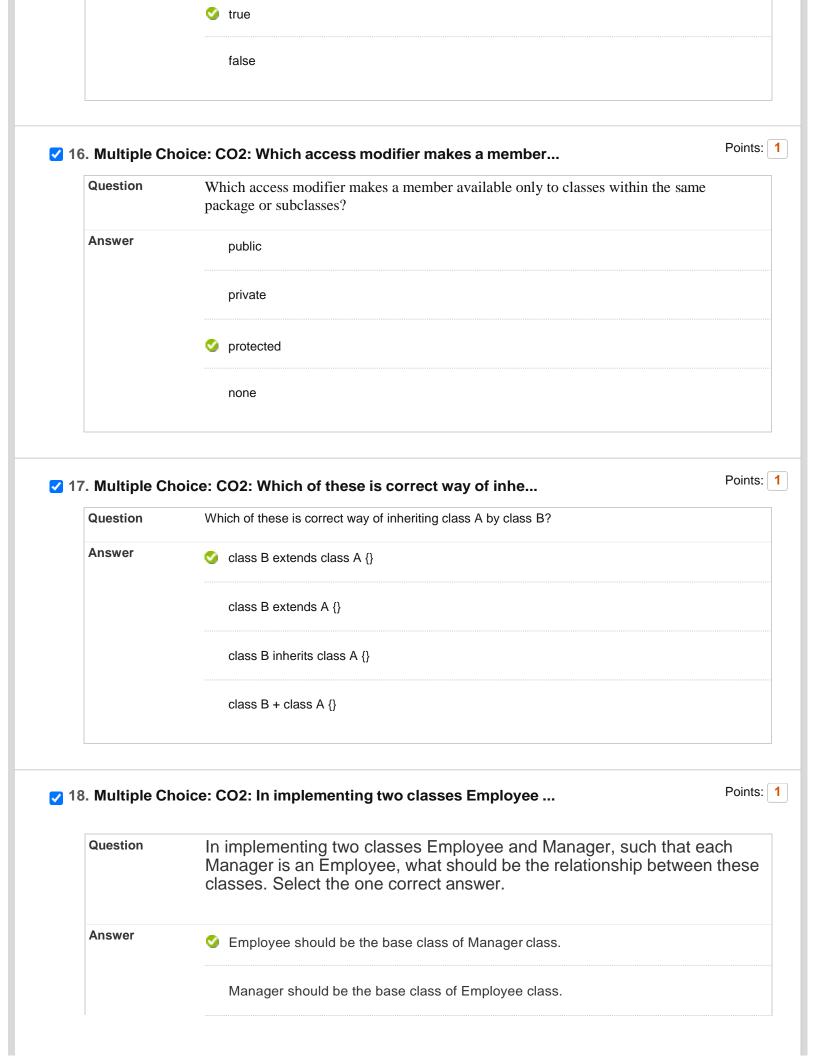
march

Compilation fails with an error at line 4

✓ 15. Multiple Choice: CO2:

```
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



Manager class should include the Employee 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:

```
What is the output for the below code ?
Question
                 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
             AB8
```

```
A 5 B 8

A B 5

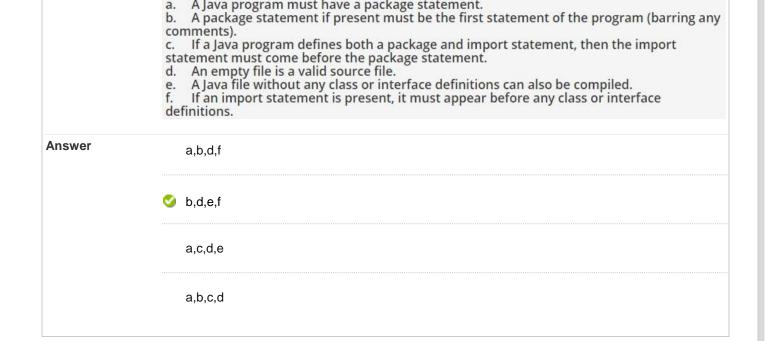
B 8 A 5
```

✓ 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:



✓ 23. Multiple Choice: CO3:

Points: 3

```
What is the output for the below code ?
Question
                 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 = 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

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

Question

w1 is not equal to w2!

```
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
```

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

Points: 3

```
public class test {
                   public static void main(String args[]) {
                     int i=1, j=1;
                     try {
                       į++;
                       if(i == i)
                          j++;
                     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
                od,e
```

☑ 27. Multiple Choice: CO3: Select the one most appropriate answe...

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...

Private methods

Points: 1

 Question
 "Using which of the following, multiple inheritance in Java can be implemented?"

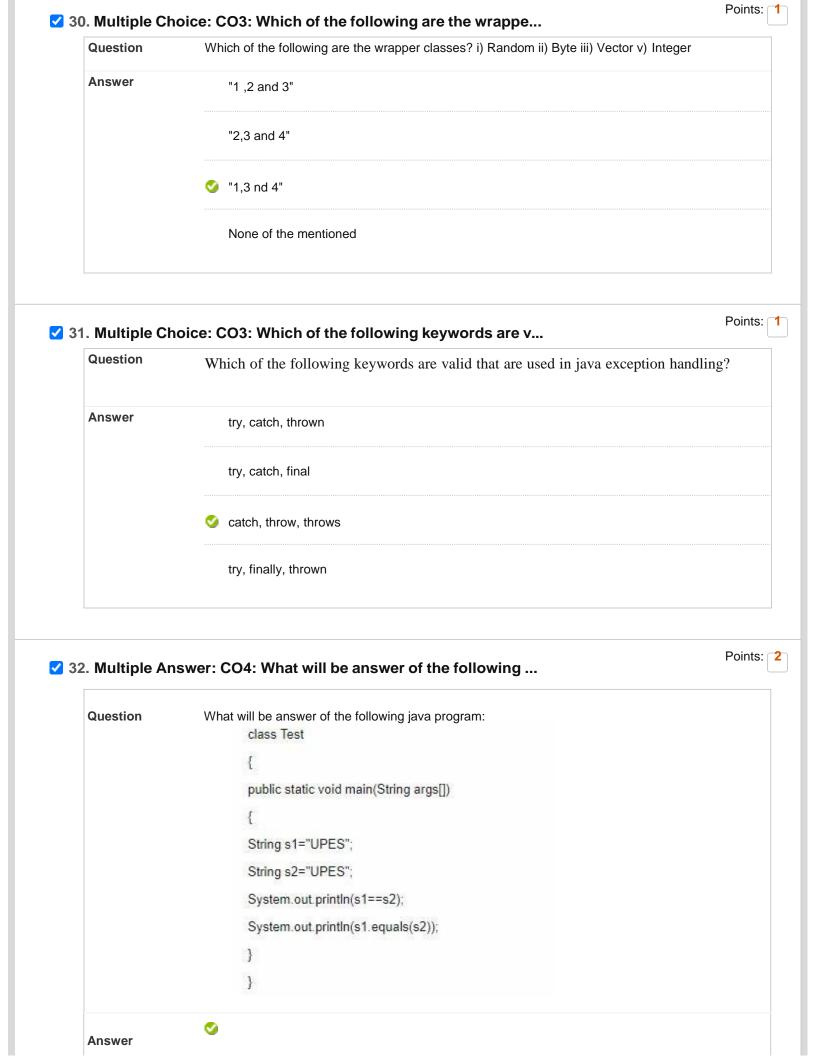
 Answer
 Multithreading

 ✓ Interfaces
 Protected methods

29. Multiple Choice: CO3:

```
Question
               What is the output for the below code ?
              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());
                        }
Answer
               test-name
            Compilation fails due to an error on lines 2
               Compilation fails due to an error on lines 1
```

Compilation succeed but Runtime Exception



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[]){ String s1="Object"; s1=s.concat(" Oriented"); System.out.println(s1); 6. } 7. **Answer** Object Object Oriented Oriented Oriented Object

✓ 34. Multiple Choice: CO4:

Points: 3



```
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 {
                         public static void main(String argv[]){
                    3.
                            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

```
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 = new A();
                       Thread t = new Thread(a, "A");
                       Thread t1 = new Thread(a, "B");
                       t.start();
                       t.join();
                       t1.start();
                        }
                 }
Answer
              AAAABBBB
                 ABABABAB
                 Output order is not guaranteed
                 Compilation succeed but Runtime Exception
```

✓

Points: 2

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

```
class A {
                       class A1 {
                                void printValue(){
                                         System.out.println("A.A1");
                                }
                       }
              }
              1. public class Test{
                     public static void main (String[] args) {
              2.
              3.
                                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

```
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 = 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

```
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
               79
               None of the above
```

✓ 40. Multiple Choice: CO4:

Points: 2

```
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

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	A set is a collection that does not allow duplicates.
	A map can store duplicate values.
	A list is a collection that is ordered by index.
	A list is a collection that cannot have duplicates.

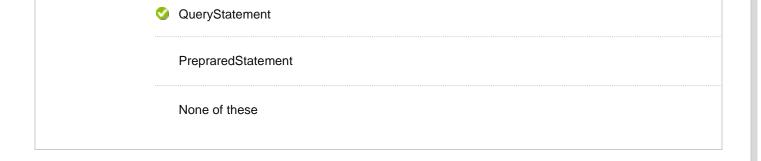
✓ 43. Multiple Choice: CO4:

Points: 1

Question	Which collection class grows or shrinks its size and provides indexed access to its elements, but methods are not synchronized?
Answer	🤣 java.util.ArrayList
	java.util.List
	java.util.vector
	java.util.HashSet

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

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



✓ 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...

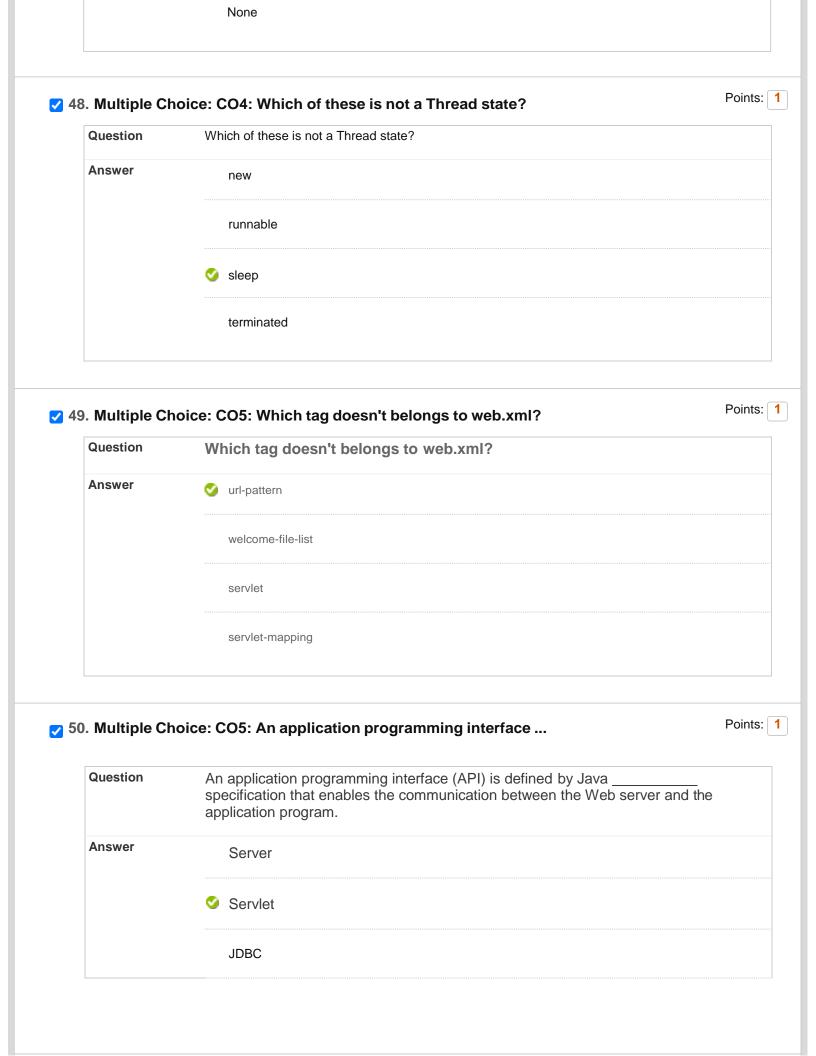
Points: 1



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...

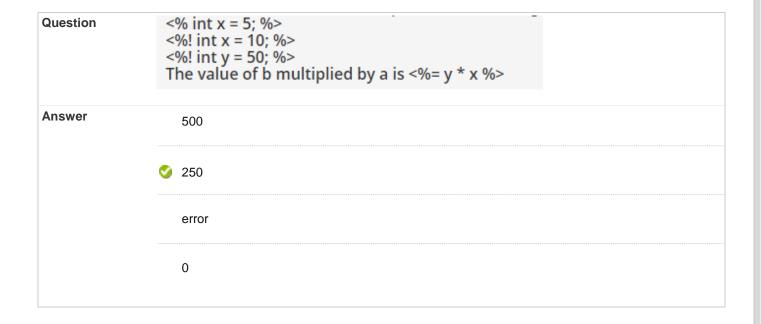
Question	What is difference between starting thread with run() and start() method?
Answer	There is no difference
	run() calls start() method internally
	"When you call start() method, main thread internally calls run() method to start newly created Thread"



Web Container

Points: 51. Multiple Choice: CO5: A Java Server Page (JSP)... Question A Java Server Page (JSP) is transformed into-Answer Java Applet Java Servlet Both Java Applet and Servlet It directly executes without conversion. Points: 1 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** Type 1 Type 2 🤇 Type 3 Type-4 Points: 1 53. Multiple Choice: CO5: Identify the legal JSP syntax for pri... Question Identify the legal JSP syntax for printing the value of a. **Answer** <%= a; %> <%int a = 1;%> <%int a = 1%>

All the statements are legal JSP syntax



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

Points: 1

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

o

false

0

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

Points: 2

```
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
```

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

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

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
	a,b,e,f

✓ 59. Multiple Choice: CO5:

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

