

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2020

Course: Object Oriented Programming

Semester: 4 CourseCode: CSEG2016 Time: 2hr Programme: B Tech CSE+CSF Max. Marks: 100

Instructions: All Questions are compulsory.

```
What is the output of the following java program?
          class FTest {
```

2 points Save Answer

```
public static void main(String args[])
 {
 final int i;
 i = 70;
 i = 70;
 System.out.println(i);
 }
O Compile Time Error
O Garbage value
O 70
\bigcirc 0
```

QUESTION 2 3 points

```
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();
  }
\bigcirc AAAABBBB
OABABABAB
```

QUESTION 3 1 points ve A Which of the following are the wrapper classes? i) Random ii) Byte iii) Vectorv) Integer O "1,2 and 3" O "2,3 and 4" O "1,3 nd 4" O None of the mentioned QUESTION 4 3 points \$a e A sw 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); O A B 8 O A 5 B 8 O A B 5 O B 8 A 5 2 points \$av nsw r QUESTION 5 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. } \bigcirc Compilation fails with an error at line 3 O Compilation fails with an error at line 4 O true O false QUESTION 6 2 points What is the output for the below code ? 1. public class Test {

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public void printName() throws FileNotFoundException {	<pre>import java.io.FileNotFoundException;</pre>	
public void printName() throws FileNotFoundException {	public class 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(); } Value-A Compilation fails-Exception NullPointerException is not compatible with throwsdause in AprintName() Name-B Compilation succeed but no output OUESTION 9 What is the process of defining more than one method in a class differentiated by method signature? Function overdiding Function overdiding Function overdading Punction doubling None of the meritoned OUESTION 10 Union to these is cornet way of inheriting class A by class B? class B extends A () class B extends A ()	<pre>public void printName() throws FileNotFoundException {</pre>	
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○ class B extends class A {} ○ class B extends A {}	QUESTION 10	1 points §
○ class B extends A {}	Which of these is correct way of inheriting class A by class B?	
	○ class B extends class A {}	
O class B inherits class A {}	○ class B extends A {}	
	O class B inherits class A {}	

6. }

QUESTION 11	1 points Save A swer
" Decrement operator, ??, decreases value of variable by what number?"	
Оз	
O 2	
O 1	
O 4	
QUESTION 12	1 points ave n w
How can Thread go from waiting to runnable state? onotify/notifAll	
○ When sleep time is up	
O Using resume() method when thread was suspended	
○ All	
QUESTION 13	2 points Save A
What will be answer of the following java program:	
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));	
3)	
}	
true true	
true	
false	
☐ false true	
false	
false	
QUESTION 14	1 points s nswer
Select the one most appropriate answer. What is the purpose of method parseInt defined in Integer class.	
○ 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.	
QUESTION 15	3 points av A we
O false run-A true	
O false run-A false	
O true run-A true	
Compilation fails due to an error on line 7	

```
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. }
```

QUESTION 16 1 points r

Which of the following keywords are valid that are used in java exception handling?

- O try, catch, thrown
- O try, catch, final
- O catch, throw, throws
- O try, finally, thrown

QUESTION 17 3 points

```
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);
}
  0
b. 1
c. 2
d. 3
e. 4
 O a,c,d
O a,b,c
Oa,b
 O d,e
```

QUESTION 18 1 points ave An e

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

- String
- StringBuffer

Stilligeulige

QUESTION 19	1 points Save n w	
Which concept of Java is achieved by combining methods and attribute into a class?		
○ Abstration		
OPolymorphism		
OInheritance		
○ Encapsulation		
QUESTION 20	1 points Save An r	
A Java Server Page (JSP) is transformed into-		
O Java Applet		
O Java Servlet		
O Both Java Applet and Servlet		
It directly executes without conversion.		
QUESTION 21	2 points	
What is the output for the below code ?		
1. public interface InfA {		
<pre>2. protected String getName();</pre>		
3. }		
public class Test implements InfA{		
<pre>public String getName(){</pre>		
return "test-name"; }		
<pre>public static void main (String[] args) {</pre>		
<pre>Test t = new Test(); System.out.println(t.getName());</pre>		
}		
○ test-name		
Compilation fails due to an error on lines 2		
Compilation fails due to an error on lines 1		
O Compilation succeed but Runtime Exception		
QUESTION 22	1 points \$a eA w r	
	i points sa ex w r	
How many characters are allowed in java for identifiers?		
○ 32		
○ 64		
○ 512		
O No Limit		
QUESTION 23	2 points	
O Runtime Exception		
O one three two		
O one three two one		
O one two three		

```
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() + " " );
                                 }
                 }
     }
QUESTION 24
                                                                                                                  1 points Save A w
 Which type of driver is preferred if our Java application needs to access multiple types of databases at the same
  O Type 1
  O Type 2
  O Type 3
  O Type-4
QUESTION 25
                                                                                                                  1 points ave nsw
 What is the return type of Constructors?
  O none of the mentioned
  \bigcirc int
  O float
  Ovoid
QUESTION 26
                                                                                                                  1 points Save nswer
 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')");
 }
  O true
  \bigcirc1
  O false
  \bigcirc0
QUESTION 27
                                                                                                                  1 points
 Which tag doesn't belongs to web.xml?
  O url-pattern
Click Save and Submit to save and submit. Click Save All Answers to save all answers.
```

Save All Answers

Close Window

0

servlet-mapping

QUESTION 28 2 points 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? O The code will compile and execute fine, and the output will be Value of j: 15 O Line 3 will generate a compiler error. The code will compile but will give an error at execution time. O None of the above QUESTION 29 1 points what is the correct way of getting the number of elements from one-dimensional array 'arr'. arr.size o arr.length arr.length() arr.length()-1 **QUESTION 30** 2 points class A { class A1 { void printValue() { System.out.println("A.A1"); } } 1. public class Test{ 2. public static void main (String[] args) { 3. A = new A();4. // INSERT CODE 5. al.printValue(); 6. } 7. } A.A1 a1 = new A.A1(); ○ A.A1 a1 = a.new A1(); A a1 = new A.A1(); O All of the above **QUESTION 31** 1 points Sa What is difference between starting thread with run() and start() method? O There is no difference orun() calls start() method internally "When you call start() method, main thread internally calls run() method to start newly created Thread" O None

○ It can take any number of parameters		
O It can contain return type		
O It can have any non access modifiers		
Constructor cannot throw exception		
QUESTION 33	1 points	
Which of these is not a Thread state?		
O new		
○ runnable ○ sleep		
○ terminated		
QUESTION 34	2 points	S ve Answer
class Test {		
<pre>public static void main(String args[]) {</pre>		
<pre>int arr[] = new int[2];</pre>		
System.out.println(arr[0]);		
}		
}		
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		
O me pregram complice and prime of men checated		
The program compiles and prints 1 when executed		
	1 points	ns r
○ The program compiles and prints 1 when executed QUESTION 35	1 points	ns r
○ The program compiles and prints 1 when executed	1 points	ns r
○ The program compiles and prints 1 when executed QUESTION 35	1 points	ns r
○ The program compiles and prints 1 when executed QUESTION 35 How many identifiers are present in the following program? class Student {	1 points	ns r
○ The program compiles and prints 1 when executed QUESTION 35 How many identifiers are present in the following program?	1 points	ns r
O The program compiles and prints 1 when executed QUESTION 35 How many identifiers are present in the following program? class Student { public static void main(String args[]) {	1 points	ns r
○ The program compiles and prints 1 when executed QUESTION 35 How many identifiers are present in the following program? class Student {	1 points	ns r
O The program compiles and prints 1 when executed QUESTION 35 How many identifiers are present in the following program? class Student { public static void main(String args[]) {	1 points	ns r
○ The program compiles and prints 1 when executed QUESTION 35 How many identifiers are present in the following program? class Student { public static void main(String args[]) { int x=10; } } }	1 points	ns r
QUESTION 35 How many identifiers are present in the following program? class Student { public static void main(String args[]) { int x=10; } }	1 points	ns r
○ The program compiles and prints 1 when executed QUESTION 35 How many identifiers are present in the following program? class Student { public static void main(String args[]) { int x=10; } } } ○ 1 ○ 2	1 points	ns r
QUESTION 35 How many identifiers are present in the following program? class Student { public static void main(String args[]) { int x=10; } }	1 points	ns r
○ The program compiles and prints 1 when executed QUESTION 35 How many identifiers are present in the following program? class Student { public static void main(String args[]) { int x=10; } } ○ 1 ○ 2 ○ 4	1 points	ns r
○ The program compiles and prints 1 when executed QUESTION 35 How many identifiers are present in the following program? class Student { public static void main(String args[]) { int x=10; } } ○ 1 ○ 2 ○ 4	1 points	ns r
OUESTION 35 How many identifiers are present in the following program? class Student { public static void main(String args[]) { int x=10; } } O 1 O 2 O 4 O 5 QUESTION 36 public static void main(String args[]) {		
OUESTION 35 How many identifiers are present in the following program? class Student { public static void main(String args[]) { int x=10; } } O 1 O 2 O 4 O 5 QUESTION 36 public static void main(String args[]) { int x, y;		
OUESTION 35 How many identifiers are present in the following program? class Student { public static void main(String args[]) { int x=10; } } O 1 O 2 O 4 O 5 QUESTION 36 public static void main(String args[]) {		

O 10 20

```
QUESTION 37 a e A r
```

```
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);
  }
}

     20 10
     20 20
     10 10
```

QUESTION 38 2 points Save

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

500

250

error

0
```

QUESTION 39 8 3 points e

```
What is the output for the below code ?
class A extends Thread{
       int count = 0;
              public void run(){
                      System.out.println("run");
synchronized (this) {
                             notify();
public class Test{
   public static void main(String argv[]) {
       a.start();
       synchronized (a) {
               System.out.println("waiting");
                      a.wait();
               }catch(InterruptedException e){
               System.out.println(a.count);
   }
```

O waiting run 1225

o waiting run 0

QUESTION 40	1 points	n wer
An application programming interface (API) is defined by Javaspecification that enables the communication between the Web server and the application program.		
○ Server		
○ Servlet		
○ JDBC		
○ Web Container		
QUESTION 41	3 points	Sav Answ
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		
All statements are true		
○ b,c, d, e,f		
O b,c,e,f		
○ a,b,e,f		
QUESTION 42	2 mainta	
QUESTION 42	2 points	V
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		
ONLY 1,2, AND 3		
ONLY 1,2, AND 4		
ONLY 4		
ONLY 1 AND 3		
QUESTION 43	2 points	Save Ans
What is the output for the below code ?		
what is the output for the below code :		
1. public class Test {		
 public static void main(String args) { Integer i = 34; 		
<pre>3.</pre>		
<pre>5. System.out.println(str);</pre>		
6. }		
7.)		
○ feb		
) jan		
omarch		
Ompilation fails with an error at line 4		
OUESTION 44	4	
QUESTION 44	1 points	е

```
O java.util.vector
 ○ java.util.HashSet
                                                                                               2 points Save n
QUESTION 45
 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();
   }
   }
 Writing book
 O Writing...
 Writing code
 O Compile Time Error
QUESTION 46
                                                                                               1 points
 Which of these keyword must be used to inherit a class?
 extends
 extent
 O this
 super
QUESTION 47
                                                                                               3 points
   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() + " ");
            }
```

O java.util.List

O None of the above

```
QUESTION 48
                                                                                                                       2 points
                                                                                                                                 e n wer
 What will be the answer of the following java program:

    class Test{
    public static void main(String args[]){
    String s1="Object";
    s1=s.concat(" Oriented");

        System.out.println(s1);
  Object
  Object Oriented
  Oriented
  Oriented Object
QUESTION 49
                                                                                                                       1 points Save An w
 Which of the following is not a valid type of statement in JDBC?

    Statement

  O QueryStatement
  O PrepraredStatement
  O None of these
QUESTION 50
                                                                                                                       2 points
    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{
                public static void main (String[] args) {
     2.
                            D d = new D();
    З.
     4.
                            d.printName();
     5.
     6.
     7. }
  O Name-D
  O Compilation fails due to an error on lines 3
  O Compilation fails due to an error on lines 4
  O Compilation succeed but no output
```

Choose correct answers

QUESTION 51

- 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 points

```
1,2,3,5
  0 1,3,5
  0 1,4,5
  0 1,2,4
                                                                                                                          2 points Save n r
QUESTION 52
 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"");
  O 101
  O -10
  O 10
  O -11
QUESTION 53
                                                                                                                          1 points
 Which of the following statements is false?
  O A set is a collection that does not allow duplicates.
  O A map can store duplicate values.
  O A list is a collection that is ordered by index.
  O A list is a collection that cannot have duplicates.
QUESTION 54
                                                                                                                          1 points ve Answe
 "Using which of the following, multiple inheritance in Java can be implemented?"

    Multithreading

  O Interfaces
  O Protected methods
  O Private methods
QUESTION 55
                                                                                                                          2 points Sav
  O Compiler error
  O Runtime error
  O w1 is equal to w2!
```

```
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?
QUESTION 56
                                                                                                                                     1 points
                                                                                                                                               Save Answe
 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.

    Employee should be the base class of Manager class.

  O Manager should be the base class of Employee class.
  Manager class should include the Employee class as a data member.
  O Employee class should include Manager class as a data member.
QUESTION 57
                                                                                                                                     2 points
   What would happen when a thread executes the following statement in its run()
   method?
   sleep(500);
  O 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.
  O 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.
QUESTION 58
                                                                                                                                     2 points
                                                                                                                                               Save
  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).
       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.
       A Java file without any class or interface definitions can also be compiled.
       If an import statement is present, it must appear before any class or interface
  definitions.
  a,b,d,f
  ○ b,d,e,f
  a,c,d,e
  a,b,c,d
QUESTION 59
                                                                                                                                     1 points
                                                                                                                                               Save Answe
 Identify the legal JSP syntax for printing the value of a.
  ○ <%= a; %>
  ○ <%int a = 1;%>
  \bigcirc <%int a = 1%>
```

 ${\it Click Save \ and \ Submit \ to \ save \ and \ submit. \ Click \ Save \ All \ Answers \ to \ save \ all \ answers.}$

QUESTION 60	1 points ave A sw r
Which access modifier makes a member available only to classes within the same package or subclasses?	
O public	
O private	
O protected	
O none	