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[NPTEL \(https://swayam.gov.in/explorer?ncCode=NPTEL\)](https://swayam.gov.in/explorer?ncCode=NPTEL) » Programming In Java (course)

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Course outline

How does an NPTEL online course work? ()

Week 0 : ()

Week 1 : ()

○ Lecture 01 : Introduction (unit? unit=18&lesso n=19)

○ Lecture 02 : Java Programming Steps (unit? unit=18&lesso n=20)

○ Lecture 03 : Java Tools and Resources (unit? unit=18&lesso n=21)

○ Lecture 04 : Demonstration -I (unit?

Week 1 : Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-02-08, 23:59 IST.

Assignment submitted on 2023-01-20, 23:07 IST

1)

1 point

What is the incorrect statement about bytecode?

- a. Java when compiles the source code, it converts it to bytecode.
- b. JVM (Java Virtual Machine) is an interpreter of bytecode.
- c. Bytecode is not portable and it needs to be compiled separately for each platform.
- d. JVM offers a protected environment which helps in enhanced safety for the system.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

2)

1 point

unit=18&lesso
n=22)

Lecture 05 :
Java Applet
Programming
(unit?
unit=18&lesso
n=23)

Quiz: Week 1
: Assignment
1
(assessment?
name=147)

Week 1 :
Programming
Assignment 1
(/noc23_cs49/
progassignme
nt?name=143)

Week 1 :
Programming
Assignment 2
(/noc23_cs49/
progassignme
nt?name=142)

Week 1:
Programming
Assignment 3
(/noc23_cs49/
progassignme
nt?name=144)

Week 1 :
Programming
Assignment 4
(/noc23_cs49/
progassignme
nt?name=145)

Week 1 :
Programming
Assignment 5
(/noc23_cs49/
progassignme
nt?name=146)

Week 1
Feedback
Form (unit?
unit=18&lesso
n=24)

Assignment 1
Solution (unit?

Consider the following program

```
public class Test {
    public static void main(String[] args) {
        //***** boolean b = false; *****/ //n1
        String b = "false";
        switch(b){ // n2
        case "False":
            System.out.println("a");
        }
    }
}
```

What is the output of the above code?

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

3) Which one of the following is not a primitive datatype? 1 point

- a. byte
- b. short
- c. class
- d. long

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

4) Which of the following is not a keyword in java? 1 point

- a. final
- b. super
- c. integer
- d. extend

- a.

unit=18&lesson
n=25)

Week 2 : ()

- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- c.
- d.

Week 4 : ()

5)

1 point

Consider the following program.

```
public class Test{
    public static void main(String[] args){
        int a = 5;
        a +=6;
        switch(a-1){
            case 5: System.out.print("10");break;
            case 10: System.out.print("15");
                System.out.print(((a%2 ==0) ? "-even-" : "-odd-"));
            default: System.out.print(a%2); }
    }
}
```

What will be the output of the program if it is executed?

- a. 15-even-1
- b. 15-odd-1
- c. 15-even-
- d. 15-odd-

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- b.

6)

1 point

Why does the error “javac is not recognized as an internal or external command” occur?

- a. Path is not set for java
- b. JDK is not correctly installed
- c. .class file is not found
- d. javac jar is missing from java library

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

7)

1 point

Following is a piece of code where some parts of a statement is missing:

```
public class Question{
    public static void main(String args[]){
        char npTEL[]={'1','2','3','4','5','6'};
        System.out.print(_____);
    }
}
```

In the following, some options are given. You have to choose the correct option(s) for the argument in *System.out.print()* function to print the value **102**.

- a. npTEL[npTEL.length-2] + npTEL[0]
- b. npTEL[0] + npTEL[npTEL.length-2]
- c. "" + npTEL[npTEL.length-2] + npTEL[0]
- d. "" + npTEL[0] + npTEL[npTEL.length-2]

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.
b.

8) **Which of the following concept that Java doesn't support? 1 point**

- a. inheritance
- b. serialization
- c. goto
- d. array

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

9)

1 point

The subsystem of JVM that is used to load class files is known as _____.

- a. Classloader
- b. JRE
- c. JDK
- d. Compiler

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

10)

1 point

What is the value of total after executing the following code snippet?

```
int mark = 5;
int grace = 2;
int total = mark + (mark > 6 ? ++grace : --grace);
```

- a. 6
- b. 5
- c. 4
- d. 3

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

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Course outline

How does an
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work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

○ Lecture 06 :
Demonstration
-II (unit?
unit=26&lesso
n=27)

○ Lecture 07 :
Encapsulation
(unit?
unit=26&lesso
n=28)

○ Lecture 08 :
Demonstration
-III (unit?
unit=26&lesso
n=29)

○ Lecture 09 :
Java
Programming

Week 2 : Assignment 2

The due date for submitting this assignment has passed.

Due on 2023-02-08, 23:59 IST.

Assignment submitted on 2023-01-30, 21:56 IST

1)

1 point

Following is a program given for this question.

```
public class Question{
    public static void main(String[] args){
        int[] x = {222, 210, 012};
        for(int i = 0; i < x.length; i++){
            System.out.print(x[i] + " ");
        }
    }
}
```

What will be the output of the above program?

- a. 22221010
- b. 12222101
- c. 22101010
- d. 22221012

- a.
- b.
- c.
- d.

Insights (unit?
unit=26&lesso
n=30)

Lecture 10 :
Demonstration
-IV (unit?
unit=26&lesso
n=31)

Quiz: Week 2
: Assignment
2
(assessment?
name=153)

Week 2 :
Programming
Assignment 1
(/noc23_cs49/
progassignme
nt?name=154)

Week 2 :
Programming
Assignment 2
(/noc23_cs49/
progassignme
nt?name=155)

Week 2 :
Programming
Assignment 3
(/noc23_cs49/
progassignme
nt?name=156)

Week 2 :
Programming
Assignment 4
(/noc23_cs49/
progassignme
nt?name=157)

Week 2 :
Programming
Assignment 5
(/noc23_cs49/
progassignme
nt?name=158)

Week 2
Feedback
Form (unit?
unit=26&lesso
n=32)

Assignment 2
Solution (unit?

Yes, the answer is correct.
Score: 1

Accepted Answers:

a.

2)

1 point

When an array is passed to a method, what value does the method receive?

- a. Reference of the array.
- b. Copy of the array.
- c. First element in the array.
- d. Length of the array.

- a.
- b.
- c.
- d.

Yes, the answer is correct.
Score: 1

Accepted Answers:

a.

3)

1 point

Following is a program given for this question.

```
public class Main{
    public static void main(String args[]){
        byte x = 28;
        x++;
        x++;
        System.out.print(x);
    }
}
```

What will be the output of the above program?

- a. 28
- b. -29
- c. 30
- d. -31

- a.
- b.
- c.
- d.

Yes, the answer is correct.
Score: 1

Accepted Answers:

c.

4)

1 point

unit=26&lesson
n=33)

Week 3 : ()

Week 4 : ()

Week 5 : ()

Week 6 : ()

Week 7 : ()

Week 8 : ()

Week 9 : ()

Week 10 : ()

Week 11 : ()

Week 12 : ()

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How many bits are needed for float and double in Java, respectively?

- a. 32 and 64
- b. 32 and 32
- c. 64 and 64
- d. 64 and 32

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

5)

1 point

Which of the following is a valid *automatic type conversion* in Java?

- a. short to byte
- b. float to long
- c. int to short
- d. int to long

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

6)

1 point

Consider the following program and identify the output.

```
public class Question{
    public static void main(String[] args){
        short x = 10;
        x = x * 5;
        System.out.print(x);
    }
}
```

- a. 5
- b. 10
- c. 50
- d. Compilation error

- a.

- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

7)

1 point

Which of the following is a valid declaration of an object of class say, Student?

- a. Student obj = new Student;
- b. Student obj = new Student();
- c. obj = new Student();
- d. new Student obj;

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

8)

1 point

What is the output of the following program?

```
public class Question{
    public static void main(String[] args){
        int[] A = {0,1,2};
        for(int i = 0; i < A.length; i++){
            A[i] = A[(A[i] + 3) % A.length];
        }
        for(int i = 0; i < A.length; i++){
            System.out.print(A[i]);
        }
    }
}
```

- a. 210
- b. 120
- c. 012
- d. 201

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

9)

1 point

Consider the following piece of code.

```
public class Question{
    public static void main(String[] args){
        String str = "anpctdelqjjava";
        System.out.println(str.substring(1,3)+str.substring(4,5) +
                           str.substring(6,8));
    }
}
```

Which of the following option is the output of the above program?

- a. java
- b. npteljava
- c. nptel java
- d. nptel

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

10)

1 point

What is the output of the following program?

```
public class Main{
    public void static main(String args[]){
        char a = '3';
        int b = 011;
        System.out.println(a+b);
    }
}
```

- a. 60
- b. 3011
- c. 33
- d. Compilation error

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

X



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Course outline

How does an
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work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Lecture 11 :
Java Static
Scope Rule
(unit?
unit=34&lesso
n=35)

Lecture 12 :
Demonstration
-V (unit?
unit=34&lesso
n=36)

Lecture 13 :
Inheritance
(unit?
unit=34&lesso
n=37)

Week 3 : Assignment 3

The due date for submitting this assignment has passed.

Due on 2023-02-15, 23:59 IST.

Assignment submitted on 2023-02-05, 23:50 IST

1)

1 point

Which of the following statement(s) is/are correct about the constructor?

- a. Constructors cannot be synchronized in Java.
- b. Java does not provide a default copy constructor.
- c. A constructor cannot be overloaded.
- d. “this” or “super” can be used in a constructor.

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

b.

d.

2)

1 point

○ Lecture 14 :
Demonstration
-VI (unit?
unit=34&lesso
n=38)

○ Lecture 15 :
Information
Hiding (unit?
unit=34&lesso
n=39)

● Quiz: Week 3
: Assignment
3
(assessment?
name=159)

● Week 3 :
Programming
Assignment 1
(/noc23_cs49/
progassignme
nt?name=148)

● Week 3 :
Programming
Assignment 2
(/noc23_cs49/
progassignme
nt?name=149)

● Week 3 :
Programming
Assignment 3
(/noc23_cs49/
progassignme
nt?name=150)

● Week 3 :
Programming
Assignment 4
(/noc23_cs49/
progassignme
nt?name=151)

● Week 3 :
Programming
Assignment 5
(/noc23_cs49/
progassignme
nt?name=152)

○ Week 3
Feedback
Form (unit?
unit=34&lesso
n=40)

Which of the following statement(s) is/are true?

- a. You can write a new instance method in the subclass with the same signature as the one in the superclass, thus overriding it.
- b. You can write a new static method in the subclass with the same signature as the one in the superclass, thus hiding it.
- c. A subclass inherits all of its parent's public and protected members, no matter what package the subclass is in.
- d. You cannot declare new methods in the subclass that are not in the superclass.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- a.
- b.
- c.
- 3)

1 point

Consider the following piece of code.

```
class Test{
    void exam() { }
}

public class Test1 extends Test {
    _____ void exam(){} // insert correct keyword
    public static void main(String[] args) {
        System.out.println(" Correct");
    }
}
```

Fill in the blank with the appropriate keyword(s) from the list given below so that the program compiles successfully.

- a. abstract
- b. final
- c. default
- d. public

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- b.
- d.

Assignment 3
Solution (unit?
unit=34&lesso
n=41)

Week 4 : ()

Week 5 : ()

Week 6 : ()

Week 7 : ()

Week 8 : ()

Week 9 : ()

Week 10 : ()

Week 11 : ()

Week 12 : ()

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4) How many instances of abstract class can be created?

1 point

- a. 0
- b. 1
- c. 2
- d. Multiple

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

5)

1 point

Structuring a Java class such that only methods within the class can access its instance variables is referred to as _____.

- a. object orientation
- b. inheritance
- c. platform independence
- d. encapsulation

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

6)

1 point

Which of the following statement(s) is/are true?

- a. A final method cannot be overridden in a subclass.
- b. The advantage of private static methods is that they can be reused later if you need to reinitialize the class variable.
- c. Class methods cannot use this keyword as there is no instance for this to refer to.
- d. A final method can be overridden in a subclass.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

b.

c.

7)

1 point

Consider the following piece of code.

```
public class Question{
    Question() {
        this();
    }

    public static void main(String []args) {
        Question obj = new Question();
        System.out.println("Java");
    }
}
```

Which of the following is the output of the above program?

a. Java

b. There will be a compile-time error.

c. JavaJava.

d. The program will give a runtime error.

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

8)

1 point

Consider the following program.

```
public class Question
{
    public static void main(String[] args) {
        String str = "Programming in java.";
        System.out.println(str.charAt(4)+str.substring(8, 11));
    }
}
```

What is the output of the above program?

a. java

b. ring

c. r min

d. gram

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

9)

1 point

Which of the following statement(s) is/are False?

- a. Hiding internal data from the outside world and accessing it only through publicly exposed methods is known as data encapsulation.
- b. Common behavior can be defined in a superclass and inherited into a subclass using the extends keyword.
- c. The term "class variable" is another name for a non-static field.
- d. A local variable stores a temporary state; it is declared inside a method.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

10)

1 point

Which of the following statement(s) is/are true?

- a. Static methods in interfaces are never inherited.
- b. You will get a compile-time error if you attempt to change an instance method in the superclass to a static method in the subclass.
- c. You can prevent a class from being subclassed by using the final keyword in the class's declaration.
- d. An abstract class can only be subclassed; it cannot be instantiated.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.
b.
c.
d.

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Course outline

How does an
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Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

● Lecture 16 :
Demonstration
-VII (unit?
unit=42&lesso
n=43)

● Lecture 17 :
Packages-I
(unit?
unit=42&lesso
n=44)

● Lecture 18 :
Packages-II
(unit?

Week 4 : Assignment 4

The due date for submitting this assignment has passed.

Due on 2023-02-22, 23:59 IST.

Assignment submitted on 2023-02-15, 21:19 IST

1)

1 point

Which of the following is the correct statement for creating a package?

- a. <package name> package;
- b. package <package name>;
- c. package;
- d. <package name>;

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

2)

1 point

Which of the following source files cannot be included in a package?

- a. classes
- b. interfaces
- c. enumerations
- d. data

unit=42&lesso
n=45)

- a.
- b.
- c.
- d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
d.

3)

1 point

Which of the following is/are used to access a *public* package?

● Quiz: Week 4 : Assignment 4 (assessment? name=160)

- a. Refer to the member by its fully qualified name
- b. Import the package member
- c. Import the member's entire package
- d. Import is not mandatory

● Week 4 : Programming Assignment 1 (/noc23_cs49/progassignment?name=161)

- a.
- b.
- c.
- d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
a.
b.
c.

4)

1 point

Which of the following statement(s) is/are false?

● Week 4 : Programming Assignment 3 (/noc23_cs49/progassignment?name=163)

- a. Java packages are hierarchical.
- b. System.out.println() is a predefined java function.
- c. Java can have a nested class structure.
- d. The Java static keyword is a non-access modifier.

● Week 4 : Programming Assignment 4 (/noc23_cs49/progassignment?name=164)

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0

Accepted Answers:
a.

● Week 4 : Programming Assignment 5 (/noc23_cs49/progassignment?name=165)

5)

1 point

Assignment 4
Solution (unit)?
unit=42&lesso
n=49)

Week 5 : ()**Week 6 : ()****Week 7 : ()****Week 8 : ()****Week 9 : ()****Week 10 : ()****Week 11 : ()****Week 12 : ()****DOWNLOAD
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Consider the program given below.

```
public class Main{
    public static void main(String args[]){
        System.out.println(cos(2*PI));
    }
}
```

What will be the output if the above program is executed?

- a. It will give compile-time error
- b. It will give run-time error
- c. 1.0
- d. 3.14

- a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

6) 1 point

Which of the following is the minimum requirement for executing a Java program?

- a. JDK
- b. JRE
- c. JDK without JRE
- d. JRE without JDK

- a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.
d.

7) 1 point

Which of the following is required for developing a Java program?

- a. JDK
- b. JRE
- c. JDK without JRE
- d. JRE without JDK

- a.

- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

8) **Which of the following statement(s) is/are correct?**

1 point

- a. Java byte code is machine dependent.
- b. Java byte code is generated by the compiler.
- c. Java byte code is generated by the interpreter.
- d. Java byte code is machine independent.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

d.

9) **Which of the following is an advantage of methods?**

1 point

- a. Code re-usability
- b. Platform independence.
- c. Fast execution of codes.
- d. Removes compilation error.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

10)

1 point

Consider the following programs:

```
public class Main1{
    public static void main(String args[]){
        int number = 10;
        System.out.println(number++ + ++number);
    }
}
```

```
public class Main2{
    public static void main(String args[]){
        int number = 10;
        System.out.println(++number + number++);
    }
}
```

Choose correct statement about the output of this code segment.

- a. Both pre-increment and post-increment operators becomes pre-increment during print.
- b. Both pre-increment and post-increment operators becomes post-increment during print.
- c. Both *Main1* and *Main2* classes give the same output.
- d. Pre-increment and post-increment operators don't work during print.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

X

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Course outline**How does an
NPTEL
online
course
work? ()****Week 0 : ()****Week 1 : ()****Week 2 : ()****Week 3 : ()****Week 4 : ()****Week 5 : ()**

- Lecture 21 :
Interface-II
(unit?
unit=50&lesso
n=51)

- Lecture 22 :
Demonstration
-IX (unit?
unit=50&lesso
n=52)

- Lecture 23 :
Exception

Week 5 : Assignment 5

The due date for submitting this assignment has passed.**Due on 2023-03-01, 23:59 IST.****Assignment submitted on 2023-02-22, 15:39 IST**

1)

1 point

Handling-I
(unit?
unit=50&lesso
n=53)

○ Lecture 24 :
Exception
Handling-II
(unit?
unit=50&lesso
n=54)

○ Lecture 25 :
Exception
Handling-III
(unit?
unit=50&lesso
n=55)

● Quiz: Week 5
: Assignment
5
(assessment?
name=171)

● Week 5 :
Programming
Assignment 1
(/noc23_cs49/
progassignme
nt?name=166)

● Week 5 :
Programming
Assignment 2
(/noc23_cs49/
progassignme
nt?name=167)

● Week 5 :
Programming
Assignment 3
(/noc23_cs49/
progassignme
nt?name=168)

● Week 5 :
Programming
Assignment 4
(/noc23_cs49/
progassignme
nt?name=169)

● Week 5 :
Programming
Assignment 5
(/noc23_cs49/
progassignme
nt?name=170)

Consider the following program.

```
class Question{
    int i;
}

class Test extends Question{
    int j;
    void display(){
        super.i = j + 1;
        System.out.println(j + " " + i);
    }
}

public class Query{
    public static void main(String args[]){
        Test obj = new Test();
        obj.i=1;
        obj.j=2;
        obj.display();
    }
}
```

If the program is executed, then what will be the output?

- a. 2 2
- b. 3 3
- c. 2 3
- d. 3 2

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

2) Consider the following piece of code.

1 point

```
package java.util;
public interface EventListener
{}
```

Which of the following statement(s) is/are true for the above code?

- a. It is an empty interface.
- b. It is a tag interface.
- c. It is a marker interface.
- d. It is a nested interface.

- a.

Feedback For Week 5 (unit? unit=50&lesso n=56)

- b.
- c.
- d.

Assignment 5 Solution (unit? unit=50&lesso n=57)

Yes, the answer is correct.

Score: 1

Accepted Answers:

- a.
- b.
- c.

Week 6 : ()

Week 7 : ()

Week 8 : ()

Week 9 : ()

Week 10 : ()

Week 11 : ()

Week 12 : ()

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1 point

What is the output of the following code?

```
interface A {
    int x=10;
    void m1();
}

class B implements A {
    int x = 20;
    public void m1(){
        System.out.println("java");
    }
}

public class Test {
    public static void main(String[] args){
        A a = new B();
        a.m1();
        System.out.println(a.x);
    }
}
```

- a. java
10
- b. java
20
- c. 10
java
- d. 20
java

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- a.

4)

1 point

Which of the following statement(s) is/are true?

- a. All abstract methods defined in an interface must be implemented.
- b. The variables defined inside an interface are static and final by default.
- c. An interface is used to achieve full abstraction.
- d. Inside an interface, a constructor can be called using the super keyword with hierarchy.

a
 b
 c
 d

Yes, the answer is correct.

Score: 1

Accepted Answers:

a
b
c

5) Which of the following statement(s) is/are true?

1 point

- 1. A class can extend more than one class.
- 2. A class can extend only one class but many interfaces.
- 3. An interface can extend many interfaces.
- 4. An interface can implement many interfaces.
- 5. A class can extend one class and implement many interfaces.

- a. 1 and 2
- b. 2 and 4
- c. 3 and 5
- d. 3 and 4

a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

6)

1 point

Which of the following statement(s) is/are true?

- a. Abstract class can have abstract and non-abstract methods.
- b. Abstract class can have final, non-final, static and non-static variables.
- c. Interface has only static and final variables.
- d. Interface can provide the implementation of an abstract class.

- a.
- b.
- c.
- d.

Partially Correct.
Score: 0.67

Accepted Answers:

- a.
- b.
- c.

7)

1 point

Consider the following piece of code.

```
public class Question {  
    public static void main(String args[]) {  
        try {  
            int a, b;  
            b = 0;  
            a = 25 / b;  
            System.out.print("A"); }  
        catch(ArithmeticException e) {  
            System.out.print("B"); }  
        finally  
        {  
            System.out.print("C"); } } }
```

What is the output of the above code?

- a. A
- b. B
- c. BC
- d. AC

- a.
- b.
- c.
- d.

Yes, the answer is correct.
Score: 1

Accepted Answers:

- c.

8) The class at the top of exception class hierarchy is 1 point

- a. Object
- b. Throwable
- c. Exception
- d. ArithmeticException

a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

9) Which of these class is superclass of every class in Java? 1 point

- a. Object class
- b. Abstract class
- c. String class
- d. ArrayList class

a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

10) 1 point

```
interface calculate{
    int VAR = 0;
    void cal(int item);
}

class display implements calculate{
    int x;
    public void cal(int item){
        if (item<2)
            x = VAR;
        else
            x = item * item;
    }
}

public class Question {
    public static void main(String args[]){
        display[] arr=new display[3];
        for(int i=0;i<3;i++)
            arr[i]=new display();
        arr[0].cal(0);
        arr[1].cal(1);
        arr[2].cal(2);
        System.out.print(arr[0].x+" "+arr[1].x+" "+arr[2].x);
    }
}
```

If the program is executed, then what will be the output?

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

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:
b.

X



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Course outline

How does an
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online
course
work? ()

Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

Week 5 : ()

Week 6 : ()

● Lecture 26 :
Demonstration
-X (unit?
unit=58&lesso
n=59)

● Lecture 27 :
Multithreading-
I (unit?
unit=58&lesso
n=60)

Week 6 : Assignment 6

The due date for submitting this assignment has passed.

Due on 2023-03-08, 23:59 IST.

Assignment submitted on 2023-03-08, 08:34 IST

1)

1 point

Which of the following is NOT TRUE in Java?

- a. Every thread has a priority.
- b. JVM allows multiple threads of execution running concurrently.
- c. Threads with higher priority are executed first.
- d. You cannot set a maximum priority value that a thread can have.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

2)

1 point

● Lecture 28 :
Multithreading-II (unit?
unit=58&lesso
n=61)

○ Lecture 29 :
Demonstration-XI (unit?
unit=58&lesso
n=62)

○ Lecture 30 : I-O Stream-I
(unit?
unit=58&lesso
n=63)

● Quiz: Week 6
: Assignment
6
(assessment?
name=177)

● Week 6 :
Programming
Assignment 1
(/noc23_cs49/
progassignme
nt?name=172)

● Week 6 :
Programming
Assignment 2
(/noc23_cs49/
progassignme
nt?name=173)

● Week 6 :
Programming
Assignment 3
(/noc23_cs49/
progassignme
nt?name=174)

● Week 6 :
Programming
Assignment 4
(/noc23_cs49/
progassignme
nt?name=175)

● Week 6 :
Programming
Assignment 5
(/noc23_cs49/
progassignme
nt?name=176)

Consider the following code:

```
class PrimeRun implements Runnable {
    long minPrime;
    PrimeRun(long minPrime) {
        this.minPrime = minPrime;
    }

    public void run() {
        // compute primes larger than minPrime
        . . .
    }
}
```

Which of the following is TRUE regarding the above code?

- a. Creating a thread in Java using Runnable interface
- b. Thread creation by declaring a class to be a subclass of Thread
- c. Overriding the run method of class Thread
- d. The class implements the run method.

- a.
 b.
 c.
 d.

Yes, the answer is correct.
Score: 1

Accepted Answers:

- a.
d.
3)

1 point

Which of the following cannot be used to create an instance of Thread?

- a. By implementing the Runnable interface.
- b. By extending the Thread class.
- c. By creating a new class named Thread and calling method run().
- d. By importing the Thread class from the related package.

- a.
 b.
 c.
 d.

Yes, the answer is correct.
Score: 1

Accepted Answers:

- c.
d.

4)

0 points

Feedback For Week 6 (unit? unit=58&lesso n=178)

Assignment 6 Solution (unit? unit=58&lesso n=65)

Week 7 : ()

Week 8 : ()

Week 9 : ()

Week 10 : ()

Week 11 : ()

Week 12 : ()

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**Text
Transcripts ()**

Which method start() will do which of the following?

- a. Causes this thread to begin execution.
- b. Either start the execution for new thread or pause an ongoing thread.
- c. The JVM calls the run method of this thread.
- d. Recovers a thread from deadlock and begin execution

a.
 b.
 c.
 d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

d.

1 point

Which method start() will do which of the following?

- a. Causes this thread to begin execution.
- b. Either start the execution for new thread or pause an ongoing thread.
- c. The JVM calls the run method of this thread.
- d. Recovers a thread from deadlock and begin execution

a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.
c.

1 point

Which of the following is not platform independent in Java?

- a) Everything in Java thread is platform dependent.
- b) The thread constructor with the stackSize parameter is platform dependent.
- c) The inheritance in java is platform dependent as multiple classes are involved.
- d) There is no platform dependency in Java.

a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

7)

0 points

The following is a simple program using the concept of thread.

```
public class Question extends Thread{
    public void run(){
        for(int i=1;i<5;i++){
            System.out.println(++i);
        }
    }
    public static void main(String args[]){
        Question t1=new Question();
        t1.run();
    }
}
```

What is the output of the above program?

- a. 1
3
- b. 2
4
6
8
- c. Runtime error
- d. 2
4

a.

b.

c.

d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

8)

1 point

For the program given below, what will be the output after its execution?

```
public class Main{
    public static void main(String[]args){
        Thread thread=Thread.currentThread();
        thread.run();
        System.out.print(thread.activeCount());
    }
}
```

- a. 1
- b. 10
- c. 01
- d. 11

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

9)

1 point

Which of the following method returns a reference to the currently executing thread object?

- a. public static boolean interrupted()
- b. public static Thread currentThread()
- c. public final boolean isAlive()
- d. public final void suspend()

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

10)

1 point

Which of the following methods can be used to reduce over-utilization of CPU?

- a. public static void yield()
- b. public static void main(String args[])
- c. public static void sleep(long millis)
- d. public void start()

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

X



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[Week 1 : \(\)](#)

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[Week 6 : \(\)](#)

[Week 7 : \(\)](#)

Lecture 31 : I-
O Stream-II
(unit?
unit=66&lesso
n=67)

Lecture 32 : I-
O Stream-III
(unit?

Week 7 : Assignment 7

The due date for submitting this assignment has passed.

Due on 2023-03-15, 23:59 IST.

Assignment submitted on 2023-03-04, 19:17 IST

1) Which of these is a type of IO stream in Java? 1 point

- a. Integer stream
- b. Short stream
- c. Byte stream
- d. Character stream

- a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- c.
d.

2)

1 point

unit=66&lesso
n=68)

Lecture 33 :
Demonstration
-XII (unit?
unit=66&lesso
n=69)

Lecture 34 :
Applet
Programming -
I (unit?
unit=66&lesso
n=70)

Lecture 35 :
Applet
Programming -
II (unit?
unit=66&lesso
n=71)

Quiz: Week 7
: Assignment
7
(assessment?
name=185)

Week 7 :
Programming
Assignment 1
(/noc23_cs49/
progassignme
nt?name=179)

Week 7 :
Programming
Assignment 2
(/noc23_cs49/
progassignme
nt?name=181)

Week 7 :
Programming
Assignment 3
(/noc23_cs49/
progassignme
nt?name=182)

Week 7 :
Programming
Assignment 4
(/noc23_cs49/
progassignme
nt?name=183)

Week 7 :
Programming
Assignment 5

Which of the following is a class in `java.io` package?

- a. `FileReader`
- b. `ObjectInput`
- c. `ObjectOutput`
- d. `DataInput`

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

3)

1 point

Consider the following program.

```
import java.io.*;
public class Question {
    public static void main(String[] args)
    {
        try {
            PrintWriter writer = new PrintWriter(System.out);
            writer.write(64+'2');
            writer.close();
        }
        catch (Exception e) {
            System.out.println(e);
        }
    }
}
```

What will be the output if the above program is executed?

- a. It will give compile-time error.
- b. B
- c. 66
- d. r

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

4)

1 point

(/noc23_cs49/
progassignme
nt?name=184)

Feedback For
Week 7 (unit?
unit=66&lesso
n=72)

Assignment 7
Solution (unit?
unit=66&lesso
n=73)

Week 8 : ()

Week 9 : ()

Week 10 : ()

Week 11 : ()

Week 12 : ()

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**Text
Transcripts ()**

Consider the following program.

```
import java.io.*;
public class files
{
    public static void main(String args[])
    {
        File obj = new File("java/programm/2023");
        System.out.print(obj.getName());
    }
}
```

What is the output of the above code?

- a. java/programm/2023
- b. java/programm/
- c. java
- d. 2023

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

5)

1 point

Which method is used to read b length bytes from the input stream into an array?

- a. public void read(int b) throws IOException{}{}
- b. public int read(byte[] b) throws IOException{}{}
- c. public void read(byte[] b) throws IOException{}{}
- d. public int read(int b) throws IOException{}{}

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

6) **How many standard streams Java can support?**

1 point

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

- a.

- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

7) **Which of the following stream is different from others?**

1 point

- a. System.in
- b. System.out
- c. PrintStream
- d. FileOutputStream

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.

8)

1 point

Which of the following is used to read a string from the input stream?

- a. get()
- b. readLine()
- c. getLine()
- d. read()

- a.
- b.
- c.
- d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

9)

1 point

Which of the following class(es) can be used for handling files in Java?

- a. java.files
- b. java.io.File
- c. java.io
- d. java.Filehandling

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

10)

1 point

Which of the following statement(s) is/are true?

- a. The default delimiters for a Scanner object are the white space characters.
- b. The Scanner class has instance methods for reading each of the Java primitive types except char.
- c. The Scanner methods do not throw any checked exceptions.
- d. The Scanner class can be found in the java.util package.

- a.
- b.
- c.
- d.

Partially Correct.

Score: 0.75

Accepted Answers:

a.
b.
c.
d.

X



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Course outline

How does an
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Week 0 : ()

Week 1 : ()

Week 2 : ()

Week 3 : ()

Week 4 : ()

Week 5 : ()

Week 6 : ()

Week 7 : ()

Week 8 : ()

● Lecture 36 :
Applet
Programming -
III (unit?
unit=74&lesso
n=75)

Week 8 : Assignment 8

The due date for submitting this assignment has passed.

Due on 2023-03-22, 23:59 IST.

Assignment submitted on 2023-03-12, 20:11 IST

1) Which of the following is NOT a class of **java.awt package?** *1 point*

- a. Color
- b. Composite
- c. Container
- d. Cursor

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

1 point

2) Which of the following is/are NOT an exception of **java.awt package?**

- a. HeadlessException
- b. AWTException
- c. FontFormatException
- d. IllegalStateException

● Lecture 37 :
Demonstration
- XIII (unit?
unit=74&lesso
n=76)

- a.
 b.
 c.
 d.

● Lecture 38 :
Demonstration
- XIV (unit?
unit=74&lesso
n=77)

Yes, the answer is correct.
Score: 1

Accepted Answers:
d.

3)

1 point

● Lecture 39 :
AWT
Programming -
I (unit?
unit=74&lesso
n=78)

- a. `getLabel()`
b. `setLabel(String label)`
c. `getCurrent()`
d. `getItem(int index)`

● Lecture 40 :
AWT
Programming -
II (unit?
unit=74&lesso
n=79)

- a.
 b.
 c.
 d.

● Quiz: Week 8
: Assignment
8
(assessment?
name=186)

Yes, the answer is correct.
Score: 1

Accepted Answers:
a.
b.

4)

1 point

Which of the following is TRUE about the following GUI?



● Week 8 :
Programming
Assignment 1
(/noc23_cs49/
progassignme
nt?name=187)

● Week 8 :
Programming
Assignment 2
(/noc23_cs49/
progassignme
nt?name=188)

● Week 8 :
Programming
Assignment 3
(/noc23_cs49/
progassignme
nt?name=189)

● Week 8 :
Programming
Assignment 4
(/noc23_cs49/
progassignme
nt?name=190)

- a. There is a Frame and two TextFields.
b. There is a Frame with two Labels and two non-editable TextFields.
c. There are two Labels.
d. There is a Frame with two Labels and two TextFields.

- a.
 b.
 c.
 d.

Yes, the answer is correct.

Week 8 :
 Programming Assignment 5 (/noc23_cs49/progassignment?name=191)

Feedback For Week 8 (unit?unit=74&lesson=n=80)

Assignment 8 Solution (unit?unit=74&lesson=n=81)

Week 9 : ()

Week 10 : ()

Week 11 : ()

Week 12 : ()

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Text Transcripts ()

Score: 1

Accepted Answers:

d.

5)

1 point

Which of the following is TRUE regarding check box and radio button?

- a. Check box is used for single selection item whereas radio button is used for multiple selection.
- b. Check box is used for multiple selection items whereas radio button is used for single selection.
- c. Both are used for multiple as well as single item selection.
- d. Checkbox is always preferred than radio buttons.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

6)

1 point

Which of the following is TRUE about check box in Java?

- a. A check box can be in either an "on" (true) or "off" (false) state.
- b. Clicking on a check box changes its state from "on" to "off," or from "off" to "on."
- c. A check box can be in an "on" (true) and in "off" (false) state simultaneously.
- d. Check boxes cannot be grouped together.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.
b.

7)

1 point

Which of the following method is used to remove all items from scrolling list in java.awt.list?

- a. hide()
- b. remove()
- c. clear()
- d. close()

- a.
- b.
- c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

8)

1 point

Which of the following statement is FALSE about the update() in java.awt package?

- a. Sets the color of the graphics context to be the foreground color of this component.
- b. Calls this component's paint method to completely redraw this component.
- c. Updates the component by checking an online repository.
- d. Clears this component by filling it with the background color.

 a. b. c. d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

c.

9)

1 point

Which of the following is the latest graphics and media package for Java?

- a. Applet
- b. AWT
- c. Swing
- d. JavaFX

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

10)

1 point

If setText(String text) is a method of Label class, then why it is called non editable?

- a. Because user-input is unavailable during runtime.
- b. A Label is just a TextField with non-editable property turned on.
- c. Labels are editable by default.
- d. setText(String text) is not a method of Label class.

 a. b.

c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

X



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Course outline

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Lecture 41 :
Demonstration
-XV (unit?)

Week 9 : Assignment 9

The due date for submitting this assignment has passed.

Due on 2023-03-29, 23:59 IST.

Assignment submitted on 2023-03-23, 14:53 IST

1)

1 point

Which of the following is/are correct regarding events in Java?

- a. *EventObject* is super class of all the events.
- b. *AdjustmentEvent* will be notified if scroll bar is manipulated.
- c. All the classes and methods required for even handling in Java is in *java.io* package.
- d. *getID()* method can be used to determine the name of an event.

- a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- a.
b.

2)

1 point

Which of the following classes is used to display a message dialog in Java Swing?

- a. *JOptionPane*
- b. *JDialog*
- c. *JMessageDialog*
- d. *JFrame*

- a.

unit=82&lesso
n=83)

- b.
- c.
- d.

○ Lecture 42 :
AWT
Programming--
III (unit?
unit=82&lesso
n=84)

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

○ Lecture 43 :
Swing
Programming -
I (unit?
unit=82&lesso
n=85)

3)

1 point

Which of the following event is occurred when a button is pressed, a list item is double-clicked or a menu item is selected?

- a. AdjustmentEvent
- b. ActionEvent
- c. ContainerEvent
- d. ComponentEvent

○ Lecture 44 :
Swing
Programming -
II (unit?
unit=82&lesso
n=86)

- a.
- b.
- c.
- d.

○ Lecture 45 :
Demonstration
-XVI (unit?
unit=82&lesso
n=87)

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

● Quiz: Week 9
: Assignment
9
(assessment?
name=192)

4)

1 point

Which of the statements are correct about Swing programming?

- a. AWT is a heavyweight programming.
- b. Swing is heavyweight programming.
- c. Swing is lightweight programming.
- d. Both AWT and Swing are lightweight programming.

- a.
- b.
- c.
- d.

No, the answer is incorrect.
Score: 0

Accepted Answers:

c.

● Week 9 :
Programming
Assignment 1
(/noc23_cs49/
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nt?name=193)

● Week 9 :
Programming
Assignment 2
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● Week 9 :
Programming
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Programming
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Programming
Assignment 5
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Feedback For
Week 9 (unit?
unit=82&lesso
n=88)

Assignment 9
Solution (unit?
unit=82&lesso
n=89)

Week 10 : ()

Week 11 : ()

Week 12 : ()

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5) **Event class is defined in which of the following libraries?** *1 point*

- a. java.io
- b. java.lang
- c. java.net
- d. java.util

a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

6) **Which of the following is/are class(es) in javax.swing package?** *1 point*

- a. BoxLayout
- b. MenuElement
- c. JComponent
- d. Scrollable

a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.
c.

7) **Which of the following statement(s) is/are true?** *1 point*

- a. Swing component **frame** does not support Window Listener.
- b. Swing component **combobox** does not support Window Listener.
- c. Swing component **checkbox** does not support Window Listener.
- d. Swing component **dialog** does not support Window Listener.

a.
 b.
 c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

c.

8)

1 point

A class which implements the ActionListener interface, also it must implement which of the following methods?

- a. void handle(ActionEvent e)
- b. void actionPerformed(ActionEvent e)
- c. void eventDispatched(AWTEvent e)
- d. String getActionCommand(ActionEvent e)

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

9)

1 point

When a component is added or removed, which of the following events is generated?

- a. ComponentEvent
- b. ContainerEvent
- c. FocusEvent
- d. InputEvent

 a. b. c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

10)

1 point

Which of these packages contains all the event handling interfaces?

- a. java.lang
- b. java.awt
- c. java.awt.event
- d. java.event

 a. b.

c. d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

X



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Week 10 : ()

Lecture 46 :
Demonstration

Week 10 : Assignment 10

The due date for submitting this assignment has passed.

Due on 2023-04-05, 23:59 IST.

Assignment submitted on 2023-03-27, 12:09 IST

1)

1 point

Which of the following statement(s) is(are) true?

- a. TCP is not reliable.
- b. UDP is most reliable.
- c. TCP is fast and UDP is slow.
- d. In HTTPS, all communication between two computers are encrypted.

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

2)

1 point

-XVII (unit?
unit=90&lesso
n=91)

○ Lecture 47 :
Demonstration
-XVIII (unit?
unit=90&lesso
n=92)

○ Lecture 48 :
Networking
with Java
(unit?
unit=90&lesso
n=93)

○ Lecture 49 :
Demonstration
-XIX (unit?
unit=90&lesso
n=94)

○ Lecture 50 :
JDBC - I (unit?
unit=90&lesso
n=95)

● Quiz: Week
10 :
Assignment
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(assessment?
name=198)

● Week 10 :
Programming
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● Week 10 :
Programming
Assignment 3
(/noc23_cs49/
progassignme
nt?name=201)

● Week 10 :
Programming
Assignment 4
(/noc23_cs49/

Which of the following statement(s) is/are true?

- a. DatagramSocket implements Object.
- b. DatagramSocket implements Closeable.
- c. DatagramSocket extends Object.
- d. DatagramSocket extends Closeable.
- e. DatagramSocket extends Object implements Closeable

- a.
- b.
- c.
- d.
- e.

Yes, the answer is correct.
Score: 1

Accepted Answers:

e.

3)

1 point

Which of the following is/are interface(s) present in java.net package?

- a. InterfaceAddress
- b. FileNameMap
- c. DatagramPacket
- d. DatagramSocket

- a.
- b.
- c.
- d.

Yes, the answer is correct.
Score: 1

Accepted Answers:

b.

4) Which of the following statement(s) is/are true?

1 point

- a. Addresses belongs to a Low-Level API.
- b. Sockets belong to High-Level API.
- c. URIs and URLs are Low-Level API.
- d. Interfaces are High-Level API,

- a.
- b.
- c.

d.
progassignme
nt?name=202)

Week 10 :
Programming
Assignment 5
(/noc23_cs49/
progassignme
nt?name=203)

Feedback For
Week 10 (unit?
unit=90&lesso
n=96)

Assignment 10
Solution (unit?
unit=90&lesso
n=97)

Week 11 : ()

Week 12 : ()

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d.
Yes, the answer is correct.
Score: 1

Accepted Answers:
a.

5)

1 point

In context of the following URL, identify the correct option.

<https://nptel.ac.in>

- a. There is no protocol provided in the above link.
- b. The website provides a secure connection.
- c. The given link is incomplete and hence cannot open a website.
- d. The ac.in refers to the website path.

a.
 b.
 c.
 d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
b.

6) **Which of the following is/are application layer protocol(s)?** **1 point**

- a. TCP
- b. UDP
- c. ARP
- d. SMTP

a.
 b.
 c.
 d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
d.

7)

1 point

What is true about IP:PORT in the following options?

- a. Port number 21 is the default FTP port.
- b. Only port number is required for FTP connections and no IP is required.
- c. 127.0.0.1 and localhost are same.
- d. There is no concept of PORT in IPv6.

a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- a.
- c.

8)

1 point

Which of the following is/are valid Data Definition Language (DDL) command(s)?

- a. SELECT
- b. INSERT
- c. UPDATE
- d. ALTER TABLE

a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- d.

9)

1 point

In JDBC, all raw data types (including binary documents or images) should be read and uploaded to the database as an array of

- a. byte
- b. vector
- c. char
- d. file

a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

10)

1 point

The package, which is required to be imported for the JDBC programming?

- a. java.net
- b. java.lang
- c. java.io
- d. java.sql

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

X



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Week 11 : Assignment 11

The due date for submitting this assignment has passed.

Due on 2023-04-12, 23:59 IST.

Assignment submitted on 2023-04-04, 12:27 IST

1)

1 point

Which of the following interfaces is used to manage transactions in JDBC?

- a. Connection
- b. Statement
- c. Transaction
- d. ResultSet

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

2)

1 point

Which of the following interfaces is used to execute parameterized SQL statements in JDBC?

- a. ResultSet
- b. PreparedStatement
- c. Statement
- d. Connection

a.

● Lecture 51 :
JDBC—II
(unit?
unit=98&lesso
n=99)

- b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

3)

1 point

Which of the following statements is true?

- a. The executeQuery() method of java.sql.Statement interface is used to execute a DELETE statement.
- b. The executeQuery() method of java.sql.Statement interface is used to execute a SELECT statement.
- c. The executeQuery() method of java.sql.Statement interface is used to execute a INSERT statement.
- d. The executeQuery() method of java.sql.Statement interface is used to execute a UPDATE statement.

- a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

4)

1 point

Which of the following statements is true?

- a. The executeUpdate() method of java.sql.Statement interface is used to execute a DELETE statement.
- b. The executeUpdate() method of java.sql.Statement interface is used to execute a SELECT statement.
- c. The executeUpdate() method of java.sql.Statement interface is used to execute a INSERT statement.
- d. The executeUpdate() method of java.sql.Statement interface is used to execute a UPDATE statement.

- a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.
c.

● Week 11 :
Programming Assignment 1
(/noc23_cs49/
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nt?name=205)

● Week 11 :
Programming Assignment 2
(/noc23_cs49/
progassigntme
nt?name=206)

● Week 11 :
Programming Assignment 3
(/noc23_cs49/
progassigntme
nt?name=207)

● Week 11 :
Programming Assignment 4

(/noc23_cs49/
progassignme
nt?name=208)

d.

5)

1 point**Which of the following statements is true about JDBC?**

- a. JDBC is a programming language.
- b. JDBC is a type of database.
- c. JDBC is an API for accessing relational databases from Java programs.
- d. JDBC is used to create graphical user interfaces.

a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.

Week 12 : ()**DOWNLOAD
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6)

1 point**Which of the following statements is true about the PreparedStatement interface in JDBC?**

- a. PreparedStatement objects are precompiled before they are executed.
- b. PreparedStatement objects can only be used for SELECT statements.
- c. PreparedStatement objects cannot accept parameters at runtime.
- d. PreparedStatement objects can be reused for multiple SQL statements.

a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.
d.

7)

1 point**Which of the following statements is true about batch updates in JDBC?**

- a. Batch updates can only be used for INSERT statements.
- b. Batch updates allow multiple SQL statements to be executed in a single transaction.
- c. Batch updates are executed immediately as soon as they are added to the batch.
- d. Batch updates can be rolled back.

a.
 b.
 c.
 d.

No, the answer is incorrect.

Score: 0

Accepted Answers:

b.

d.

8)

1 point

Consider the following code.

```
import java.sql.*;
class InsertPrepared{
    public static void main(String args[]){
        try{
            Class.forName("com.mysql.jdbc.Driver");
            Connection con=DriverManager.getConnection(
                "jdbc:mysql://localhost/database","Java","july");
            PreparedStatement stmt=con.prepareStatement("INSERT INTO
table VALUES(?,?)");
            stmt.setString(1,"one");
            stmt.setString(2,"two");
            stmt.executeUpdate();
            con.close();
        }
        catch(Exception e){
            System.out.println(e);
        }
    }
}
```

What is the output of the above code?

- a. Compilation error
- b. Runtime error
- c. 1, "one" is replaced by 2, "two" in the table.
- d. "one" and "two" both are inserted in different columns of same row.

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

9)

1 point

Which type of JDBC driver translates JDBC calls into native database API calls?

- a. Type 1 driver
- b. Type 2 driver
- c. Type 3 driver
- d. Type 4 driver

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

10)

1 point

Which of the following method is static and synchronized in JDBC API?

- a. `getConnection()`
- b. `prepareCall()`
- c. `executeUpdate()`
- d. `executeQuery()`

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a.

X



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Week 12 : Assignment 12

The due date for submitting this assignment has passed.

Due on 2023-04-19, 23:59 IST.

Assignment submitted on 2023-04-09, 23:25 IST

1)

1 point

Which statement is incorrect in case of using “this” keyword in a static method?

- a. “this” keyword can be used in static method to access static variables only
- b. “this” keyword first needs to be defined by user
- c. “this” keyword cannot be used as a variable name
- d. “this” keyword can not be used in static method to access static variables only

a.

b.

c.

d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

d.

2)

1 point

Week 12 : ()

Lecture 56 :
Case Study - I
(unit?
unit=106&less
on=107)

Lecture 57 :
Case Study - II
(unit?
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Lecture 58 :
Case Study - III
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Lecture 59 :
Case Study - IV
(unit?
unit=106&less
on=110)

Lecture 60 :
Case Study - V
(unit?
unit=106&less
on=111)

Quiz: Week 12 : Assignment 12 (assessment? name=210)

Week 12 : Programming Assignment 1 (/noc23_cs49/ progassigment?name=211)

Week 12 : Programming Assignment 2 (/noc23_cs49/ progassigment?name=212)

Week 12 : Programming Assignment 3 (/noc23_cs49/ progassigment?name=213)

State whether the following statements are True or False.

- i) A catch can not have comma-separated multiple arguments.**
ii) Throwing an Exception always causes program termination.

- a. True, False
b. False, True
c. True, True
d. False, False

- a.
 b.
 c.
 d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
a.

- 3) **Which of the following contains only date and not time?** 1 point

- a. java.io.date
b. java.sql.date
c. java.util.date
d. java.util.dateTime

- a.
 b.
 c.
 d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
b.

- 4) **Why the applets are depreciated?** 1 point

- a. Applet are complicated to program
b. Applet had severe security issues
c. Applet was replaced by AWT
d. Applet was resource intensive

Week 12 :
 Programming Assignment 4 (/noc23_cs49/progassignment?name=214)

Week 12 :
 Programming Assignment 5 (/noc23_cs49/progassignment?name=215)

Feedback For Week 12 (unit?unit=106&less on=113)

Assignment 12 Solution (unit?unit=106&less on=112)

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- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

5)

1 point

Which of the following control expressions are valid for an if statement?

- a. Any integer expression.
- b. 0 and 1 as integer.
- c. A String object.
- d. Any Boolean expression.

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

6)

Consider the following program:

```
String animal = "GOAT";
switch(animal){
    break; System.out.println("DOMESTIC");
}
```

1 point

What is the output of the Java program given above?

- a. No output
- b. GOAT
- c. DOMESTIC
- d. Compiler error

- a.
- b.

- c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

7)

1 point

Consider the following program:

```
public class Question
{
    public static void main(String[] args) {
        String str = "january java nptel.";

        System.out.println(str.charAt(7)+str.substring(9,
14));
    }
}
```

What is the output of the following program?

- a. java
b. ava
c. y java
d. ava n

- a.
 b.
 c.
 d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

d.

8)

1 point

Which of the following are correct statement for array declaration?

- a. float[] = new float(3);
b. float f2[] = new float[];
c. float[] f1 = new float[3];
d. float f3[] = new float[3];

- a.
 b.

- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- c.
- d.

9)

1 point

Consider the following piece of code in Java.

```
public class Test {  
    public static void aMethod() throws Exception {  
        try {  
            throw new Exception();  
        }  
        finally {  
            System.out.print("finally ");  
        }  
    }  
    public static void main(String args[]) {  
        try {  
            aMethod();  
        }  
  
        catch (Exception e) {  
            System.out.print("exception ");  
        } finally {  
            System.out.print("finally ");  
        }  
  
        System.out.print("finished ");  
    }  
}
```

What is the result, if the above-mentioned program is executed?

- a. finally
- b. finally exception finally finished
- c. finally exception finished
- d. Compilation fails

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

b.

10)

1 point

Which is a component in AWT that can contain another components like buttons, textfields, labels etc.?

- a. Window
- b. Panel
- c. Container
- d. Frame

- a.
- b.
- c.
- d.

Yes, the answer is correct.

Score: 1

Accepted Answers:

c.