

<b>Started on</b>	Wednesday, 12 October 2022, 10:26 AM
<b>State</b>	Finished
<b>Completed on</b>	Wednesday, 12 October 2022, 11:04 AM
<b>Time taken</b>	37 mins 44 secs
<b>Marks</b>	27.83/30.00
<b>Grade</b>	<b>9.28</b> out of 10.00 ( <b>93%</b> )

Question **1**

Complete

Mark 1.00 out of 1.00

The Java programming language is a high-level language that can be characterized by the following buzzword(s):

Select one:

- ☐ a. Multithreaded.
- ☐ b. Secure.
- ☐ c. Object-oriented.
- ☐ d. Portable.
- ☐ e. Robust.
- ☒ f. All of the others.

The correct answer is: All of the others.

Question **2**

Complete

Mark 1.00 out of 1.00

The Java source code is a \_\_\_\_ file , and it is compiled to \_\_\_\_ file.

Select one:

- ☐ a. .class, .java
- ☐ b. .class, .exe
- ☐ c. .java, .bin
- ☐ d. .java, .exe
- ☒ e. .java, .class

The correct answer is: .java, .class

Question **3**

Complete

Mark 1.00 out of 1.00

A .class file contains .....

Select one:

- ☒ a. Java bytecodes.
- ☐ b. Machine codes
- ☐ c. CPU codes.
- ☐ d. Assembly codes

The correct answer is: Java bytecodes.

Question **4**

Complete

Mark 1.00 out of 1.00

Based on the Java Virtual Machine, the same application is capable of running on .....

Select one:

- ☐ a. a specific platform.
- ☒ b. multiple platforms.
- ☐ c. Windows platform only.
- ☐ d. Solaris platform only.

The correct answer is: multiple platforms.

Question **5**

Complete

Mark 1.00 out of 1.00

The first character of a Java identifier can be .....

Select one or more:

- ☐ a. a letter only.
- ☒ b. a underscore
- ☐ c. an arbitrary symbol
- ☒ d. a dollar sign
- ☒ e. a letter

The correct answers are: a letter, a underscore, a dollar sign

## Question 6

Complete

Mark 1.00 out of 1.00

Select incorrect declarations for the Java entry point of a program.

- (1) `public void main( String [ ] a) { }`
- (2) `public void main( String a) { }`
- (3) `public static void main( String a[ ] ) { }`
- (4) `public static void main( String[ ] a) { }`
- (5) `public static void main( ) { }`

Select one or more:

- ☒ a. 5
- ☒ b. 1
- ☐ c. 4
- ☐ d. 3
- ☒ e. 2

The correct answers are: 1, 2, 5

## Question 7

Complete

Mark 0.17 out of 1.00

Which of the followings are value-variables?

Select one or more:

- ☒ a. `double x= 5.4;`
- ☒ b. `char c = 'A';`
- ☐ c. `int n;`
- ☐ d. `int[ ] ar;`
- ☒ e. `String S = "Hello";`

The correct answers are: `char c = 'A';`, `double x= 5.4;`, `int n;`

## Question 8

Complete

Mark 0.00 out of 1.00

Study the following Java program:

```
public class Test001 {  
    public static void main(String[] args)  
    { System.out.print(args[0] + args[1]);  
    }  
}
```

After compiling, the above is run with the syntax: **java Test001 5 6 7**

The output of the program is: .....

Select one:

- ☐ a. None of the others.
- ☐ b. 567
- ☐ c. 18
- ☐ d. 56
- ☒ e. 11

The correct answer is: 56



## Question 9

Complete

Mark 1.00 out of 1.00

The expression  **$(-1 > 3)$**  will be evaluated to .....

The expression  **$(3 \mid 4)$**  will be evaluated to .....

Select one:

- ☐ a. -1, 5
- ☐ b. 1, 4
- ☐ c. None of the others.
- ☐ d. 1, 3
- ☒ e. -1, 7

The correct answer is: -1, 7

Question **10**

Complete

Mark 1.00 out of 1.00

The expression **(12 & 3)** will be evaluated to .....

The expression **(12 ^ 3)** will be evaluated to .....

Select one:

- ☐ a. None of the others.
- ☐ b. 12, 3
- ☐ c. 17, 9
- ☐ d. 3, 12
- ☒ e. 0, 15

The correct answer is: 0, 15

## Question 11

Complete

Mark 1.00 out of 1.00

Study the following Java program:

```
public class Test001 {  
    public static void main(String[] args)  
    {  
        final int n=3;  
        int x= 5;  
        int y= x*n;  
        n=7;  
        int z= y+n;  
        System.out.print(z);  
    }  
}
```

The output is ....

Select one:

- ☒ a. An error is thrown when it is compiled.
- ☐ b. 15
- ☐ c. 20
- ☐ d. None of the others.
- ☐ e. 22

The correct answer is: An error is thrown when it is compiled.

Question **12**

Complete

Mark 1.00 out of 1.00

Study the following declarations in the same package:

```
class A {  
    int x=5;  
}  
class B {  
    int y=6;  
    public void m(A obj){  
        System.out.print(obj.x + this.y );  
    }  
}
```

Select one or more:

- ☐ a. Instance variables x and y have the private modifier.
- ☐ b. Instance variables x and y have the protected modifier.
- ☒ c. The above code can be compiled successfully.
- ☐ d. An error is thrown when it is compiled.
- ☒ e. Instance variables x and y have the default modifier.

The correct answers are: The above code can be compiled successfully., Instance variables x and y have the default modifier.

Question **13**

Complete

Mark 1.00 out of 1.00

The legal order for access modifier overridden is :

Select one:

- ☒ a. private -> default -> protected -> public
- ☐ b. default -> protected -> private -> public
- ☐ c. default -> private -> protected -> public
- ☐ d. private -> protected -> default -> public

The correct answer is: private -> default -> protected -> public

Question **14**

Complete

Mark 1.00 out of 1.00

Study the following declaration:

```
class A {  
    static int N = 10;  
    int m = 3;  
}
```

Select one:

- ☐ a. Both N and m are a class variables.
- ☐ b. m is a class variable, N is an instance variable.
- ☐ c. Both N and m are instance variables.
- ☒ d. N is a class variable, m is an instance variable.

The correct answer is: N is a class variable, m is an instance variable.

Question **15**

Complete

Mark 0.67 out of 1.00

Study the following code:

```
byte n = 5;      //1  
float x = 7.0f; //2  
double y = 6.2; //3  
x = n;          //4  
n = x;          //5
```

Select one or more:

- ☒ a. The code line 5 needs a type casting.
- ☐ b. The code line 4 causes a type conversion.
- ☐ c. The code line 5 cause an implicit type conversion.
- ☒ d. The code line 4 causes an implicit conversion.
- ☐ e. The code line 4 needs a type casting.

The correct answers are: The code line 4 causes a type conversion., The code line 4 causes an implicit conversion., The code line 5 needs a type casting.

Question **16**

Complete

Mark 1.00 out of 1.00

Study the following code:

```
byte n = 5; //1  
float x = 7.0f; //2  
double y = 6.2; //3  
String S= "Hello"; // 4  
x = n; //5  
n = (byte)x; //6  
S += n; //7
```

The code lines cause implicit type changes:

Select one:

- ☐ a. 2, 5, 7
- ☐ b. 6
- ☐ c. None of the others.
- ☒ d. 5, 7
- ☐ e. 5, 6, 7

The correct answer is: 5, 7



Question **17**

Complete

Mark 1.00 out of 1.00

Select correct statements.

Select one or more:

- ☒ a. Exceptions can not be identified by compilers.
- ☐ b. Exceptions can not be predicted by programmers.
- ☐ c. Syntax errors cause exceptions when a program executes.
- ☒ d. Syntax errors can be detected by compilers.
- ☒ e. If exceptions are not caught, when it occurs, the program terminates abruptly.

The correct answers are: Exceptions can not be identified by compilers., If exceptions are not caught, when it occurs, the program terminates abruptly., Syntax errors can be detected by compilers.

Question **18**

Complete

Mark 1.00 out of 1.00

Study the following code:

```
int m=5, n=0;  
try  
    m /=n;  
catch (Exception e) {  
    System.out.println("AA");  
}
```

The output of the code is .....

Select one:

- ☐ a. Nothing is printed out.
- ☐ b. None of the others.
- ☒ c. compile-time error.
- ☐ d. AA

The correct answer is: compile-time error.

Question **19**

Complete

Mark 1.00 out of 1.00

Consider the following statements:

(1) A statement may cause a runtime exception can not be put in the try block.

(2) All statements may cause a low-level exception must be put in the try block.

(1) is \_\_\_\_, and (2) is \_\_\_\_\_

Select one:

- ☐ a. false, false
- ☐ b. false, true
- ☐ c. true, true
- ☒ d. true, false

The correct answer is: true, false

Question **20**

Complete

Mark 1.00 out of 1.00

To run a Java program containing assertion statement. The option .... must be specified.

Select one or more:

- ☐ a. -a
- ☐ b. assertallowed
- ☐ c. -assert
- ☒ d. -ea
- ☒ e. -enableassertions

The correct answers are: -ea, -enableassertions

Question **21**

Complete

Mark 1.00 out of 1.00

State of an software object is \_\_\_\_

Select one:

- ☐ a. None of the others
- ☐ b. Class declaration which this object belongs to
- ☒ c. Values in object's fields
- ☐ d. Memory block was allocated

The correct answer is: Values in object's fields

Question **22**

Complete

Mark 1.00 out of 1.00

Behaviors of an object are implemented via \_\_\_\_

Select one:

- ☒ a. methods
- ☐ b. All of the others
- ☐ c. properties
- ☐ d. fields

The correct answer is: methods

Question **23**

Complete

Mark 1.00 out of 1.00

The keyword \_\_\_\_ is used to declare a subclass.

Select one:

- ☐ a. expands
- ☐ b. extend
- ☐ c. extension
- ☒ d. extends

The correct answer is: extends

Question **24**

Complete

Mark 1.00 out of 1.00

\_\_\_\_\_ is a way to group related classes in Java and it is called as a namespace also.

Select one:

- ☐ a. None of the others
- ☐ b. software
- ☐ c. file
- ☒ d. package

The correct answer is: package



Question **25**

Complete

Mark 1.00 out of 1.00

\_\_\_\_\_ of OOP supports ability to hide information.

Select one:

- ☐ a. None of the others
- ☐ b. grouping
- ☒ c. encapsulation
- ☐ d. inheritance
- ☐ e. polymorphism

The correct answer is: encapsulation

Question **26**

Complete

Mark 1.00 out of 1.00

The modifier \_\_\_\_ is a way to hide information of a class from outside world.

Select one:

- ☐ a. protected
- ☐ b. public
- ☐ c. default
- ☒ d. private
- ☐ e. None of the others

The correct answer is: private

Question **27**

Complete

Mark 1.00 out of 1.00

Common access modifiers are:

Select one:

- ☒ a. public, private, protected, default
- ☐ b. public, final, static, protected, default
- ☐ c. None of the others
- ☐ d. public, final, static, protected, default, private

The correct answer is: public, private, protected, default

Question **28**

Complete

Mark 1.00 out of 1.00

Study the follwing code:

```
public class Test {  
    int x;  
    public static final int N=30;  
    static {  
        System.out.print("A");  
        System.out.print(N);  
    }  
    Test (int xx) {  
        x=xx;  
    }  
    static {  
        System.out.print("B");  
    }  
    public static void main (String[] args){  
        Test obj = new Test(5);  
    }  
}
```

Result of this program is \_\_\_\_

Select one:

- ☒ a. A30B
- ☐ b. AB30
- ☐ c. B30A
- ☐ d. Compile-time error

The correct answer is: A30B



Question **29**

Complete

Mark 1.00 out of 1.00

Study the following code:

```
public class Test {  
    void f() {  
        System.out.print(1);  
    }  
}  
class Test2 extends Test {  
    void f() {  
        System.out.print(2);  
    }  
}  
class Program {  
    public static void main (String[] args) {  
        Test obj = new Test2();  
        obj.f();  
    }  
}
```

What is it's result?

Select one:

- ☐ a. Compile-time error
- ☐ b. 21
- ☐ c. 1
- ☐ d. 12
- ☒ e. 2

The correct answer is: 2

Question **30**

Complete

Mark 1.00 out of 1.00

A software object's state is stored in .....

A software object's behavior is exposed through .....

Select one:

- ☒ a. fields, methods
- ☐ b. functions, methods
- ☐ c. methods, fields
- ☐ d. fields, background

The correct answer is: fields, methods

