



PROGRAMMING IN JAVA

Assignment4

TYPE OF QUESTION: MCQ

Number of questions: 10

Total mark: $10 \times 1 = 10$

QUESTION 1:

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

- a. The default package in the Java language is java.lang.
- b. String is a final class and it is present in java.lang package.
- c. Runnable is a class present in java.lang package.
- d. Thread is a class present in java.lang package.

Correct Answer: a,b,d

Detailed Solution:

Runnable is an interface in java.lang package.

QUESTION 2:

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

- a. With the import statement, generally import only a single package member or an entire package.
- b. To import all the types contained in a particular package, use the import statement with the asterisk (*) wildcard character.
`import package.*;`
- c. `import package.A*;` it used to match a subset of the classes in a package starts with "A".
- d. `import package.A*;` it generates compilation error.

Correct Answer: c

Detailed Solution:

`import package.A*;` it generates compilation error.



QUESTION 3:

Which of the following is/are class(s) of `java.awt` package?

- a. CardLayout
- b. Checkbox
- c. Choice
- d. MenuContainer

Correct Answer: a,b,c

Detailed Solution:

MenuContainer is an interface of `java.awt` package, all others are class.

QUESTION 4:

Which of these access specifier(s) can be used for an interface?

- a. public
- b. protected
- c. private
- d. Both b and c

Correct Answer: a

Detailed Solution:



QUESTION 5:

Consider the program given below.

```
import static java.lang.Math.*;

public class Main{

    public static void main(String args[]){

        System.out.println(cos(3*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

Correct Answer: c

Detailed Solution:

Test by run.

The static import statement is used to import the static members(e.g. ,PI) of java.lang.Math.

```
import static java.lang.Math.*;
```

QUESTION 6:

Which of the following packages is used to includes utility classes like Calendar, Collections, Date?

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

Correct Answer: b

Detailed Solution:



java.util is used to includes utility classes like Calendar, Collection, Date.

QUESTION 7:

Consider the program given below.

```
import static java.lang.System.*;
public class Question{
    public static void main(String args[])
    {
        out.println("JAVA");
    }
}
```

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. JAVA
- d. JAV

Correct Answer: c

Detailed Solution:

QUESTION 8:

Which of the following is/are NOT valid declaration(s) of an interface?

- a.

```
public interface Question {
    void method(int value) {
        System.out.println("Nptel");
    }
}
```
- b.

```
public interface Question {
    void method(int value) {
```



```
}  
}  
  
c. public interface Question {  
  
}  
  
d. public interface Question {  
    default void method(int value) {  
        System.out.println("Nptel");  
    }  
}
```

Correct Answer: a

Detailed Solution:

In option a , It has a method implementation in it. Only default and static methods have implementations. So option a is not a valid interface. All others are valid.

QUESTION 9:

Which of the following is false statement about interface in java?

- a. An interface can extend other interfaces.
- b. The interface body can contain abstract methods, default methods, and static methods.
- c. All constant values defined in an interface are implicitly public, static, and final.
- d. A static method in an interface are implicitly private.

Correct Answer: d

Detailed Solution:

static methods in an interface are implicitly public. So you can omit the public modifier.

QUESTION 10:

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

- a. The default package in the Java language is java.lang.
- b. String is a final class and it is present in java.lang package.
- c. Cloneable is an interface in java.lang package.



d. Thread is a class present in java.lang package.

Correct Answer: a,b,c,d

Detailed Solution:

All statements are true.

*****END*****