



PROGRAMMING IN JAVA

Assignment4

TYPE OF QUESTION: MCQ

Number of questions: 10

Total mark: $10 \times 1 = 10$

QUESTION 1:

Which of these is a mechanism for naming and visibility control of a class and its content?

- a. Objects.
- b. Interfaces.
- c. Packages.
- d. Both a and b.

Correct Answer: c

Detailed Solution:

Packages are both naming and visibility control mechanism.

QUESTION 2:

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

- a. Packages are used to organize a set of related classes and interfaces.
- b. Packages are used for preventing naming conflicts.
- c. Packages provide code reusability.
- d. Packages cannot be considered as data encapsulation.

Correct Answer: d

Detailed Solution:

Packages can be considered as data encapsulation (or data-hiding)



QUESTION 3:

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

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

Correct Answer: d

Detailed Solution:

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

QUESTION 4:

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

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

Correct Answer: c

Detailed Solution:

Cloneable is an interface in `java.lang` package.



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(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

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 include utility classes like Calendar, Collections, and 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:

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

- a. Comparable interface is present in java.lang package
- b. Iterator interface is present in java.util package.
- c. Compare() is a method used in Comparable interface.
- d. Serializable interface is present in java.io package.

Correct Answer: c

Detailed Solution:

Comparable interface provides compareTo() method to sort elements in Java whereas Comparator interface provides compare() method to sort elements in Java.



QUESTION 8:

Which of the following is/are 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: b,c,d

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 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:

*****END*****