



PROGRAMMING IN JAVA

Assignment 3

TYPE OF QUESTION: MCQ

Number of questions: 10

Total mark: $10 \times 1 = 10$

QUESTION 1:

Which of the following keyword(s) can be used in a subclass to call the constructor of super class?

- a. super
- b. this
- c. extent
- d. extends

Correct Answer: a

Detailed Solution:

The keyword super is used to call the constructor of the super class from a subclass.

QUESTION 2:

If there is an abstract method in a class, then which of the following is/are NOT true.

- a. The class should be declared abstract.
- b. No object of the class can be created.
- c. Any subclass of the class may or may not be abstract class.
- d. A final class can have abstract method(s) and an abstract class can be declared final.

Correct Answer: d

Detailed Solution:

If a class includes abstract methods, then the class should be declared abstract. No object can be created for an abstract class. Further, if a class is derived from an abstract class and abstract method in the base class is not defined, then the derived class is also an abstract class.

QUESTION 3:

Which of the following statement is true regarding the order of execution of constructors in an inheritance hierarchy?

- a. Base class constructor will be called followed by the derived class constructor.



- b. Derived class constructor will be called followed by the base class constructor.
- c. Only Base class constructor will be called.
- d. Only derived class constructor will be called.

Correct Answer: a

Detailed Solution:

On object creation of derived class, first base class constructor and then the derived class constructor will be called.

QUESTION 4:

Which of the following is TRUE about the break statement in Java in the context of loop?

- a. Break stops the execution of entire program.
- b. Break forces the control out of the loop.
- c. Break forces the control out of the loop and starts the execution of next iteration.
- d. Break halts the execution of the loop for certain time frame.

Correct Answer: b

Detailed Solution:

A break statement inside a loop will terminate the loop execution and the control jumps to the statement immediately after the last statement in the loop.

QUESTION 5:

Which of the following is called when a method having the same name as that of the class is defined?

- a. abstract
- b. this
- c. final
- d. constructor

Correct Answer: d

Detailed Solution:

In a class, if more than one method having the same name but with different signature is used, then it is called a constructor.



QUESTION 6:

Which of the following is NOT true about a method in a class?

- a. A method can be defined recursively.
- b. A method can be defined without any statement in it.
- c. A constructor is a special kind of method, which can be defined recursively.
- d. A method can be defined with variable number of arguments.

Correct Answer: c

Detailed Solution:

A constructor cannot be defined recursively. Other statements are true.

QUESTION 7:

```
public class B1 {  
    private static int i = 0;  
    private static int j = 0;  
  
    public static void main(String[] args) {  
        int i = 4;  
        int k = 5;  
  
        {  
            int j = 3;  
            System.out.println("i + j is "+i +j);  
        }  
  
        k = i + j;  
        System.out.println(k);  
        System.out.println(j);  
    }  
}
```

What is the output of the above program?

- a. i + j is 43
4
0
- b. i + j is 7
9
3
- c. i + j is 43
9
3
- d. i + j is 7
2



Correct Answer: a

QUESTION 8:

Which inheritance is NOT supported in Java programming?

- a. Multiple inheritance using classes.
- b. Multiple inheritance using interfaces.
- c. Multilevel inheritance.
- d. Single inheritance.

Correct Answer: a

Detailed Solution:

Java does not support multiple inheritance of classes but it supports **multiple inheritance** for interfaces. Means, a class cannot inherit more than one class but it can inherit and implement multiple interfaces.

QUESTION 9:

Which of the following data structure is used to manage the recursion in Java?

- a. Array
- b. Stack
- c. Queue
- d. Tree

Correct Answer: b

Detailed Solution:

A stack is internally used by the Java run time manager to execute a recursive method.

QUESTION 10:

Hiding internal data from the outside world, and accessing it only through publicly exposed methods is known as data_____

- a. Polymorphism
- b. Encapsulation.



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- c. Inheritance.
 - d. Duplication.

Correct Answer: b

Detailed Solution: Hiding the internal details from the outside world is known as encapsulation.