**Access Modifiers And Static Keyword**

**1. Which of these access specifiers must be used for main() method?**  
a) private  
b) public(ANS)  
c) protected  
d) none of the mentioned

**2. Which of these is used to access a member of class before object of that class is created?**a) public  
b) private  
c) static(ANS)  
d) protected

**3. Which of these is used as a default for a member of a class if no access specifier is used for it?**a) private(ANS)  
b) public  
c) public, within its own package  
d) protected

**4. What is the process by which we can control what parts of a program can access the members of a class?**a) Polymorphism  
b) Abstraction  
c) Encapsulation(ANS)  
d) Recursion

**5. Which of the following statements are incorrect?**  
a) public members of class can be accessed by any code in the program  
b) private members of class can only be accessed by other members of the class  
c) private members of class can be inherited by a subclass, and become protected members in subclass(ANS)  
d) protected members of a class can be inherited by a subclass, and become private members of the subclass

**6. What is the output of this program?**

**class** access

{

**public** **int** x;

**private** **int** y;

**void** cal(**int** a, **int** b)

{

x = a + 1;

y = b;

}

}

**public** **class** access\_specifier

{

**public** **static** **void** main(String args[])

{

access obj = **new** access();

obj.cal(2, 3);

System.out.println(obj.x + " " + obj.y);

}

}

a) 3 3  
b) 2 3  
c) Runtime Error(ANS)  
d) Compilation Error

**7. What is the output of this program?**

**class** access

{

**public** **int** x;

**private** **int** y;

**void** cal(**int** a, **int** b)

{

x = a + 1;

y = b;

}

**void** print()

{

System.out.println(" " + y);

}

}

**public** **class** access\_specifier

{

**public** **static** **void** main(String args[])

{

access obj = **new** access();

obj.cal(2, 3);

System.out.println(obj.x);

obj.print();

}

}

a) 2 3  
b) 3 3(ANS)  
c) Runtime Error  
d) Compilation Error

**8. What is the output of this program?**

**class** static\_out

{

**static** **int** x;

**static** **int** y;

**void** add(**int** a, **int** b)

{

x = a + b;

y = x + b;

}

}

**public** **class** static\_use

{

**public** **static** **void** main(String args[])

{

static\_out obj1 = **new** static\_out();

static\_out obj2 = **new** static\_out();

**int** a = 2;

obj1.add(a, a + 1);

obj2.add(5, a);

System.out.println(obj1.x + " " + obj2.y);

}

}

a) 7 7.4  
b) 6 6.4  
c) 7 9(ANS)  
d) 9 7

**9. Which of these access specifier must be used for class so that it can be inherited by another subclass?**  
a) public(ANS)  
b) private  
c) protected  
d) none of the mentioned

**Static Keyword :=**

**Question 1. what is the output of this question?**

|  |
| --- |
| **class** Test1 {  **public**  **static** **void** main(String[] args)      {  **int** x = 20;          System.out.println(x);      }  **static**      {  **int** x = 10;          System.out.print(x + " ");      }  } |

**Option**  
A) 10 20(ANS)  
B) 20 10  
C) 10 10  
D) 20 20

**Question 2. what is the output of this question?**

|  |
| --- |
| **class** Test1 {  **int** x = 10;  **public**  **static** **void** main(String[] args)      {          System.out.println(x);      }  **static**      {          System.out.print(x + " ");      }  } |

**Option**  
A) 10 10  
B) Error(ANS)  
C) Exception  
D) none

**Question 3. what is the output of this question?**

|  |
| --- |
| **class** Test1 {  **int** x = 10;  **public**  **static** **void** main(String[] args)      {          Test1 t1 = **new** Test1();          System.out.println(t1.x);      }  **static**      {  **int** x = 20;          System.out.print(x + " ");      }  } |

**Option**  
A) 10 20  
B) 20 10(ANS)  
C) 10 10  
D) Error

**Question 4. what is the output of this question?**

|  |
| --- |
| **class** Test1 {  **int** x = 10;  **public**  **static** **void** main(String[] args)      {          System.out.println(Test1.x);      }  **static**      {  **int** x = 20;          System.out.print(x + " ");      }  } |

**Option**  
A)10 10  
B) 20 20  
C) 20 10  
D) Error(ANS)

**Question 5. what is the output of this question?**

|  |
| --- |
| **class** Test1 {  **static** **int** x = 10;  **public**  **static** **void** main(String[] args)      {          Test1 t1 = **new** Test1();          Test1 t2 = **new** Test1();            t1.x = 20;          System.out.print(t1.x + " ");          System.out.println(t2.x);      }  } |

**Option**  
A) 10 10  
B) 20 20(ANS)  
C) 10 20  
D) 20 10