

# Practice MCQs

## **Session-1**

# Q1

What will be the output of the following code snippet?

```
if(true) System.out.print("A");  
if(!false) System.out.print("B");  
else if(true) System.out.print("C");  
else System.out.print("D");
```

- A. AB      B. AC      C. ABC      D. Compilation Error

# Q1

What will be the output of the following code snippet?

```
if(true) System.out.print("A");  
if(!false) System.out.print("B");  
else if(true) System.out.print("C");  
else System.out.print("D");
```

A. AB      B. AC      C. ABC      D. Compilation Error

A

## Q2

Which of the following is INCORRECT header for the main method in java?

- A. `public final static void main(String [] arg)`
- B. `static public void main(String arg [])`
- C. `public static void main(String...arg)`
- D. None of These

## Q2

Which of the following is INCORRECT header for the main method in java?

- A. `public final static void main(String [] arg)`
- B. `static public void main(String arg [])`
- C. `public static void main(String...arg)`
- D. None of These

D

## Q3

Which of the following statement is TRUE about the following class?

```
class A {}
```

- A. It can be saved in a file named as B.java and compiled using command `javac B.java`
- B. It can be saved only with name A.java and compiled using command `javac A.java`
- C. It can not be instantiated.
- D. None of These

## Q3

Which of the following statement is TRUE about the following class?

```
class A {}
```

- A. It can be saved in a file named as B.java and compiled using command `javac B.java`
- B. It can be saved only with name A.java and compiled using command `javac A.java`
- C. It can not be instantiated.
- D. None of These

A



## Q4

All the objects in Java are created inside \_\_\_\_\_ and local variable in \_\_\_\_\_.

- A. Class Area, Heap
- B. Heap, Class Area
- C. Heap, Stack
- D. Class Area, Stack



# Q4

All the objects in Java are created inside \_\_\_\_\_ and local variable in \_\_\_\_\_.

- A. Class Area, Heap
- B. Heap, Class Area
- C. Heap, Stack
- D. Class Area, Stack

C

# Q5

What will be the output of the following code snippet?

```
int x=10, y=5;
x = --y + x-- - --x + y;
System.out.println(x);
```

- A. 10      B. 9      C. 11      D. 14

# Q5

What will be the output of the following code snippet?

```
int x=10, y=5;
x = --y + x-- - --x + y;
System.out.println(x);
```

- A. 10      B. 9      C. 11      D. 14

A

## Q6

Which of the following keywords are NOT allowed with local variables in Java?

i. private

ii. static

iii. final

A. only i

B. i & iii

C. i & ii

D. All

## Q6

Which of the following keywords are NOT allowed with local variables in Java?

i. private

ii. static

iii. final

A. only i

B. i & iii

C. i & ii

D. All

C

# Q7

What will be the output of the following statement?

```
int x=3, y=0;
System.out.println( ++x > 4 || y-- > 0 ? ++y : --x);
```

A. 4

B. 3

C. 0

D. Compilation Error

# Q7

What will be the output of the following statement?

```
int x=3, y=0;
System.out.println( ++x > 4 || y-- > 0 ? ++y : --x);
```

A. 4

B. 3

C. 0

D. Compilation Error

B



## Q8

What will be the output of the following code snippet?

```
int x=-13, y=2;
```

```
System.out.println( x>>y);
```

- A. -3      B. -4      C. 3      D. Compilation Error

## Q8

What will be the output of the following code snippet?

```
int x=-13, y=2;
System.out.println( x>>y);
```

- A. -3      B. -4      C. 3      D. Compilation Error

B

# Q9

What will be the output of the following code?

```
class Test
{
    int x=10;
    Test(int a)
    {
        System.out.print(x++);
        x=a;
    }
    public static void main(String [] arg)
    {
        new Test(5);
    }
}
```

- A. 0      B. 5      C. 10      D. Compilation Error

# Q9

What will be the output of the following code?

```
class Test
{
    int x=10;
    Test(int a)
    {
        System.out.print(x++);
        x=a;
    }
    public static void main(String [] arg)
    {
        new Test(5);
    }
}
```

C

- A. 0      B. 5      C. 10      D. Compilation Error

## Q10

Which of the following keyword is NOT allowed with Constructor?

i. final      ii. static      iii. private

A. ii & iii

B. i & ii

C. Only ii

D. i, ii & iii

## Q10

Which of the following keyword is NOT allowed with Constructor?

i. final      ii. static      iii. private

A. ii & iii

B. i & ii

C. Only ii

D. i, ii & iii

B

# Q11

What will be the output of the following Program?

```
class A {
    A(int x) { System.out.print("Hi "); }
}
class B extends A {
    B(int x) { System.out.print("Hello"); }
    public static void main(String [] rk)
    {
        B b1 = new B(1);
    }
}
```

A. Hello  
C. Hi

B. Hi Hello  
D. Compilation Error



# Q11

What will be the output of the following Program?

```
class A {
    A(int x) { System.out.print("Hi "); }
}
class B extends A {
    B(int x) { System.out.print("Hello"); }
    public static void main(String [] rk)
    {
        B b1 = new B(1);
    }
}
```

D

A. Hello  
C. Hi

B. Hi Hello  
D. Compilation Error

# Q12

What will be the output of the following code:

```
int i= 5, j=2;
for( ; i-- > ++j ; );
System.out.println(i+""+j);
```

A. 43

B. 53

C. 34

D. Compilation Error

# Q12

What will be the output of the following code:

```
int i= 5, j=2;
for( ; i-- > ++j ; );
System.out.println(i+""+j);
```

C

A. 43

B. 53

C. 34

D. Compilation Error

# Q13

What will be the output of the following code snippet?

```
int i=10, j=5;
while(--i>10 && ++j>5);
System.out.println(i+""+j);
```

- |       |                      |
|-------|----------------------|
| A. 95 | B. 105               |
| C. 96 | D. Compilation Error |

# Q13

What will be the output of the following code snippet?

```
int i=10, j=5;
while(--i>10 && ++j>5);
System.out.println(i+""+j);
```

A

- A. 95
- B. 105
- C. 96
- D. Compilation Error

## Q14

Which of the following will print 7?

- A. `System.out.println(29 >> 2);`
- B. `System.out.println(59 >>> 3);`
- C. `byte b = -8; System.out.println(~b);`
- D. All the Above

## Q14

Which of the following will print 7?

- A. `System.out.println(29 >> 2);`
- B. `System.out.println(59 >>> 3);`
- C. `byte b = -8; System.out.println(~b);`
- D. All the Above

D



# Q15

What will the output of the following code snippet?

```
String [] str = new String[3];
str[1] = "A";   str[2] = "B";
str[3] = "C";           //Line 1
System.out.print(str);  //Line 2
```

- |                                |                  |
|--------------------------------|------------------|
| A. Compilation Error in Line 1 | B. ABC           |
| C. Compilation Error in Line 2 | D. None of These |

# Q15

What will the output of the following code snippet?

```
String [] str = new String[3];
str[1] = "A";   str[2] = "B";
str[3] = "C";           //Line 1
System.out.print(str);  //Line 2
```

- |                                |                  |
|--------------------------------|------------------|
| A. Compilation Error in Line 1 | B. ABC           |
| C. Compilation Error in Line 2 | D. None of These |

# Q16

What will the output of the following code snippet?

```
first:  for(int i=0; i<3; i++)
        {
            second: for(int j=i; j<3; j++)
                    {
                        if(j==2) break first;
                        if(i==j) continue second;
                        System.out.print(j);
                    }
        }
```

A. 012

B. 01

C. 12

D. 1

# Q16

What will the output of the following code snippet?

D

```
first:  for(int i=0; i<3; i++)
        {
            second: for(int j=i; j<3; j++)
                    {
                        if(j==2) break first;
                        if(i==j) continue second;
                        System.out.print(j);
                    }
        }
```

A. 012

B. 01

C. 12

D. 1

# Q17

What will the output of the following code snippet?

```
first:  for(int i=0; i<3; i++)
        {
            second: for(int j=i; j<3; j++)
                    {
                        if(j==1) break first;
                        if(i>j) continue second;
                        System.out.print(j);
                    }
        }
```

- A. 0                      B. 01                      C. 12                      D. 1

# Q17

What will the output of the following code snippet?

A

```
first:  for(int i=0; i<3; i++)
        {
            second: for(int j=i; j<3; j++)
                    {
                        if(j==1) break first;
                        if(i>j) continue second;
                        System.out.print(j);
                    }
        }
```

A. 0

B. 01

C. 12

D. 1

# Q18

```
public class Task
{
    public static void main(String[] args) {
        int x=5,y=1;
        if(x++>5)
        {
            if(y<2)
                System.out.println("Hi");
            else
                System.out.println("Bye");
        }
        else
            System.out.println(x);
    }
}
```

- A. 6    B. Hi    C. Bye    D. 5



# Q18

```
public class Task
{
    public static void main(String[] args) {
        int x=5,y=1;
        if(x++>5)
        {
            if(y<2)
                System.out.println("Hi");
            else
                System.out.println("Bye");
        }
        else
            System.out.println(x);
    }
}
```

**A. 6**   B. Hi   C. Bye   D. 5

# Q19

```
public class Task
{
    public static void main(String[] args) {
        int x=5,y=1;
        if(++x>5)
            if(++y<2)
                System.out.println("Hi");
            else
                System.out.println("Bye");
        else
            System.out.println("Hello");
    }
}
```

A. Hi   B. Bye   C. Hello   D. Blank Output

# Q19

```
public class Task
{
    public static void main(String[] args) {
        int x=5,y=1;
        if(++x>5)
            if(++y<2)
                System.out.println("Hi");
            else
                System.out.println("Bye");
        else
            System.out.println("Hello");
    }
}
```

A. Hi   **B. Bye**   C. Hello   D. Blank Output

## Q20

Which of the following is true about the following class?

```
public class A
{
    public static void main(String[] args){}
}
```

- A. It can be saved in a file named as B.java and compiled using command `javac B.java`
- B. It can be saved ONLY with name A.java and compiled using command `javac A.java`
- C. Above class can not be compiled successfully.
- D. None of These

## Q20

Which of the following is true about the following class?

```
public class A
{
    public static void main(String[] args){}
}
```

- A. It can be saved in a file named as B.java and compiled using command `javac B.java`
- B. It can be saved ONLY with name A.java and compiled using command `javac A.java`
- C. Above class can not be compiled successfully.
- D. None of These

# Q21

```
public class Task
{
    public static void main(String[] args) {
        String s1="This is the test phase";
        System.out.println(s1.lastIndexOf('t',11));
    }
}
```

- A. 8
- B. 12
- C. -1
- D. 7

# Q21

```
public class Task
{
    public static void main(String[] args) {
        String s1="This is the test phase";
        System.out.println(s1.lastIndexOf('t',11));
    }
}
```

**A. 8**

B. 12

C. -1

D. 7

## Q22

What will be the Output of the following Code snippet?

```
StringBuilder sb = new StringBuilder(0); //Line 1  
sb.append("Hello");  
sb.ensureCapacity(8);  
System.out.println(sb.capacity());
```

- A. Compilation Error in Line 1
- B. 8
- C. 12
- D. 5



## Q22

What will be the Output of the following Code snippet?

```
StringBuilder sb = new StringBuilder(0); //Line 1  
sb.append("Hello");  
sb.ensureCapacity(8);  
System.out.println(sb.capacity());
```

- A. Compilation Error in Line 1
- B. 8
- C. 12**
- D. 5

## Q23

What will be the Output of the following Code snippet?

```
StringBuilder sb = new StringBuilder(6);  
sb.ensureCapacity(8);  
sb.setLength(2);//Line1  
System.out.println(sb.capacity());
```

- A. Compilation Error in Line 1
- B. 8
- C. 12
- D. 14

## Q23

What will be the Output of the following Code snippet?

```
StringBuilder sb = new StringBuilder(6);  
sb.ensureCapacity(8);  
sb.setLength(2);//Line1  
System.out.println(sb.capacity());
```

- A. Compilation Error in Line 1
- B. 8
- C. 12
- D. 14**

## Q24(Output??)

```
public class Main
{
    public static void main(String[] args) {
        String s1="TESTING";
        String s2="testing";
        System.out.println(s1.compareToIgnoreCase(s2));
    }
}
```

- A. 0
- B. -1
- C. 1
- D. false

## Q24(Output??)

```
public class Main
{
    public static void main(String[] args) {
        String s1="TESTING";
        String s2="testing";
        System.out.println(s1.compareToIgnoreCase(s2));
    }
}
```

- A. 0
- B. -1
- C. 1
- D. false

# Q25(Output)

```
public class Main
{
    public static void main(String[] args) {
        StringBuilder sb=new StringBuilder(2);
        sb.append("Exam");
        System.out.println(sb.capacity()+" "+sb.length());
    }
}
```

- A. 2 2
- B. 4 2
- C. 6 4
- D. 2 4

# Q25(Output)

```
public class Main
{
    public static void main(String[] args) {
        StringBuilder sb=new StringBuilder(2);
        sb.append("Exam");
        System.out.println(sb.capacity()+" "+sb.length());
    }
}
```

- A. 2 2
- B. 4 2
- C. 6 4**
- D. 2 4

# Q26

What should be the minimum changes in code given below to correct it?

```
public class Car //Line 1
{
    public abstract void addFuel(); //Line2
}
```

- A. Line 1 should be written as abstract public class Car
- B. Line 2 should be written as public void addFuel(){}
  - C. Line 2 should be written as public void addFuel();
  - D. Either A or B



## Q26

What should be the minimum changes in code given below to correct it?

```
public class Car //Line 1
{
    public abstract void addFuel(); //Line2
}
```

- A. Line 1 should be written as abstract public class Car
- B. Line 2 should be written as public void addFuel(){}
  - C. Line 2 should be written as public void addFuel();
- D. Either A or B**

## Q27(Output??)

```
class ABC {  
    int x;  
}  
class PQR extends ABC {  
    int y;  
}  
public class Main {  
    public static void main(String[] args)  
    {  
        ABC obj = new PQR();  
        System.out.println(obj.y);  
    }  
}
```

- A. 0
- B. 1
- C. Compile time error
- D. Runtime error

## Q27(Output??)

```
class ABC {  
    int x;  
}  
class PQR extends ABC {  
    int y;  
}  
public class Main {  
    public static void main(String[] args)  
    {  
        ABC obj = new PQR();  
        System.out.println(obj.y);  
    }  
}
```

- A. 0
- B. 1
- C. Compile time error**
- D. Runtime error

## Q28(Output??)

```
class A{}  
class B extends A{  
    public static void main(String args[]){  
        A obj1=new B();  
        if(obj1 instanceof B)  
        {  
            B obj2=(B)obj1;  
            System.out.println("Hi");  
        }  
        else  
        {  
            System.out.println("Hello");  
        }  
    }  
}
```

- A. Hi
- B. Hello
- C. Compile time error
- D. Runtime error

## Q28(Output??)

```
class A{}  
class B extends A{  
    public static void main(String args[]){  
        A obj1=new B();  
        if(obj1 instanceof B)  
        {  
            B obj2=(B)obj1;  
            System.out.println("Hi");  
        }  
        else  
        {  
            System.out.println("Hello");  
        }  
    }  
}
```

- A. Hi**
- B. Hello
- C. Compile time error
- D. Runtime error

## Q29

Output of following Java Program?

```
class Base {  
    public void show() {  
        System.out.println("Base::show() called");  
    }  
}  
  
class Derived extends Base {  
    public void show() {  
        System.out.println("Derived::show() called");  
    }  
}  
  
public class Main {  
    public static void main(String[] args) {  
        Base b = new Derived();  
        b.show();  
    }  
}
```

- A. Derived::show() called
- B. Base::show() called
- C. Compile time error
- D. Runtime error

## Q29

Output of following Java Program?

```
class Base {  
    public void show() {  
        System.out.println("Base::show() called");  
    }  
}  
  
class Derived extends Base {  
    public void show() {  
        System.out.println("Derived::show() called");  
    }  
}  
  
public class Main {  
    public static void main(String[] args) {  
        Base b = new Derived();  
        b.show();  
    }  
}
```

- A. Derived::show() called**
- B. Base::show() called
- C. Compile time error
- D. Runtime error

# Q30

```
class Base {  
    final public void show() {  
        System.out.println("Base::show() called");  
    }  
}  
  
class Derived extends Base {  
    public void show() {  
        System.out.println("Derived::show() called");  
    }  
}  
  
class Main {  
    public static void main(String[] args) {  
        Base b = new Derived();  
        b.show();  
    }  
}
```

- A. Base::show() called
- B. Derived::show() called
- C. Compiler Error
- D. Runtime Error



# Q30

```
class Base {  
    final public void show() {  
        System.out.println("Base::show() called");  
    }  
}  
  
class Derived extends Base {  
    public void show() {  
        System.out.println("Derived::show() called");  
    }  
}  
  
class Main {  
    public static void main(String[] args) {  
        Base b = new Derived();  
        b.show();  
    }  
}
```

- A. Base::show() called
- B. Derived::show() called
- C. Compiler Error**
- D. Runtime Error

# Q31

```
class Base {  
    public static void show() {  
        System.out.println("Base::show() called");  
    }  
}
```

```
class Derived extends Base {  
    public static void show() {  
        System.out.println("Derived::show() called");  
    }  
}
```

```
class Main {  
    public static void main(String[] args) {  
        Base b = new Derived();  
        b.show();  
    }  
}
```

- A.Base::show() called
- B.Derived::show() called
- C.Compiler Error
- D.Runtime Error

# Q31

```
class Base {  
    public static void show() {  
        System.out.println("Base::show() called");  
    }  
}
```

```
class Derived extends Base {  
    public static void show() {  
        System.out.println("Derived::show() called");  
    }  
}
```

```
class Main {  
    public static void main(String[] args) {  
        Base b = new Derived();  
        b.show();  
    }  
}
```

**A.Base::show() called**

B.Derived::show() called

C.Compiler Error

D.Runtime Error