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Branch :SKCET

Department :ECE

Batch :2021-25

Degree :BE-ECE

2021_25_IV_JAVA Programming (ECE/EEE)_IRC

IRC_Java_D4_Java Looping_KQ_MCQ

Attempt : 1
Total Mark : 30
Marks Obtained : 28

Section 1 : MCQ

1.   What is the output of the code?

```
class Main
{
   public static void main(String[] args)
   {
      int sum = 14;
      if ( sum < 20 )
         System.out.print("Under ");
      else
         System.out.print("Over ");
      System.out.println("the limit.");
   }
}
```

Answer

Under the limit.

Status : Correct

Marks : 1/1

2.   Choose the options that can replace the text "abc" in the below code to

print the contents of the array.

```java
public class Whizlabs
{
    public static void main(String[] args)
    {
        int[] testData = {1,2,3};
        for(abc)
        {
            // Some Print logic to print the array element for each iteration
        }
    }
}
```

Answer

int i : testData
int i=0 ;i<3 ;i++

Status : Correct   ***Marks : 1/1***

3. Which of the following can loop through an array without referring to the elements by index?

Answer

for-each

Status : Correct   ***Marks : 1/1***

4. Which of the following statements is/are true?

I. A traditional for loop can iterate through an array starting from index 0.

II. A traditional for loop can iterate through an array starting from the end.

Answer

Both statements

Status : Correct   ***Marks : 1/1***

5. What does the following code output?

```
class Solution
{
    public static void main(String[] args)
    {
            byte x = 127;
            x++;
            x++;
            System.out.print(x);
    }
}
```

Answer

-127

Status : Correct   *Marks : 1/1*

6. What is the result of the following code?

```
class Main
{
  public static void main(String[] args)
  {
    do
    {
      int count = 0;
      do {
          count++;
      }
      while (count < 2);
      System.out.println(count);
      break;
    } while (true);
  }
}
```

Answer

2

7. How many of the loop types (while, do while, traditional for, and enhanced for) allow you to write code that creates an infinite loop?

Answer

Three

Status : Correct   *Marks : 1/1*

8. How many of these statements can be inserted after the println to have the code flow follow the arrow in this diagram?

break;

break label1;

break label2;

Answer

Two

Status : Correct   *Marks : 1/1*

9. What is the output of the following Java code?

```java
class Main
{
   public static void main(String[] args)
   {
     boolean balloonInflated = false;
     do
     {
       if (!balloonInflated)
       {
         balloonInflated = true;
         System.out.print("inflate-");
```

```
    }
  } while (! balloonInflated);
  System.out.println("done");
  }
}
```

Answer

inflate-done

Status : Correct   *Marks : 1/1*

10. What describes the order in which the three expressions appear in a for loop?

Answer

initialization expression, boolean conditional, update statement

Status : Correct   *Marks : 1/1*

11. Which of the following iterates a different number of times than the others?

Answer

int k=0; do { } while(k++ < 7)

Status : Correct   *Marks : 1/1*

12. What will be the output of this program?

```
class Main
{
  public static void main(String[] args)
  {
    int []a = {3,2,1,0};
    int y = a.length;
    int x=y-1;

    while(y>=0)
```

```
    {
      System.out.println(a[--y]);
    }
  }
}
```

Answer

0123 followed by an exception

Status : Correct   *Marks : 1/1*

13. What will be the output of this program?

```
class Main
{
    public static void main(String [ ] args)
    {
      for ( int j = 0, k = 5; j < k; k--) ;
      for ( int j = 0; j++ < 3;) ;
      for ( int i = 0; i < 5; i++, System.out.print(i + ".Hi ")) ;
    }
}
```

Answer

1.Hi 2.Hi 3.Hi 4.Hi 5.Hi

Status : Correct   *Marks : 1/1*

14. What will happen when you compile and run the following code?

```
public class Test{

  public static void main(String[] args){

    for(int i = 0 ; i < 10; i++){
    }
    System.out.println(i);

  }
```

}

Answer

10

Status : Correct   *Marks : 1/1*

15. What will happen when you compile and run the following code?

```java
class Test
{
  public static void main(String[] args)
  {
    int i = 0;
    for(; i < 10; i++){
      break;
    }
    System.out.println(i);
  }
}
```

Answer

0

Status : Correct   *Marks : 1/1*

16. What will happen when you compile and run the following code?

```java
public class Test{
  public static void main(String[] args){
    int i = 0;
    for(i = 100; i < = 0; i -= 10 ){
      System.out.print(i + ", ");
    }
  }
}
```

Answer

None of the above

Status : Correct   *Marks : 1/1*

17.   What will happen when you compile and run the following code?

public class Test{

  public static void main(String[] args){
   for(char c = 'a' ; c < 'd'; c++){
     System.out.print(c);
   }
  }
}

Answer

Code will print abc

Status : Wrong   *Marks : 0/1*

18.   what will be the output of the following program?

public class Test {
public static void main(String[] args) {

  for (int i = 0; i < 10; i++)
   int x = 10;
  }
}

Answer

Compile time error

Status : Wrong   *Marks : 0/1*

19.   A _____ statement allows us to execute a statement or group of statements multiple times.

Answer

loop

Status : Correct   *Marks : 1/1*

20. What does the following code print?

```
for (int i = 3; i <= 12; i++)
{
  System.out.print(i + " ");
}
```

Answer

3 4 5 6 7 8 9 10 11 12

Status : Correct   *Marks : 1/1*

21. What does the following code print?

```
int x = -5;
while (x < 0)
{
  x++;
  System.out.print(x + " ");
}
```

Answer

-4 -3 -2 -1 0

Status : Correct   *Marks : 1/1*

22. What does the following code print?

```
int x = 0;
while (x <= 5)
```

```
{
  System.out.print(x + " ");
  x++;
}
```

Answer

0 1 2 3 4 5

Status : Correct   *Marks : 1/1*

23.   What does the following code print?

```
int x = 3;
while (x < 9)
{
  System.out.print(x + " ");
}
```

Answer

It is an infinite loop

Status : Correct   *Marks : 1/1*

24.   What will happen when you compile and run the following code?

```
public class Test{
  public static void main(String[] args){
    for(int i = 0; i < 3; i++){
      for(int j = 0; j < i; j++){
        System.out.print(i + " " + j + ", ");
      }
    }
  }
}
```

}

Answer

1 0, 2 0. 2 1

Status : Correct   *Marks : 1/1*

25. Will this code compile?

```
public class Test{
  public static void main(String[] args){
    for(;;){}
  }
}
```

Answer

Yes

Status : Correct   *Marks : 1/1*

26. What will happen when you compile and run the following code?

```
public class Test{
  public static void main(String[] args){
    for(int a = 0, b = 3; a < 3 && b > 0; a++, b--){
      System.out.print(a + " " + b + ", ");
    }
  }
}
```

Answer

0 3, 1 2, 2 1,

Status : Correct   *Marks : 1/1*

27. What will happen when you compile and run the following code?

```
public class Test{
```

```
   public static void main(String[] args){
     for(int i = 65; i < 68 ; i++){
       System.out.print((char)i);
     }
   }
}
```

Answer

None of the above

Status : Correct   **Marks : 1/1**

28.   What is the output of the following?

StringBuilder builder = new StringBuilder(); String str = new String("Leaves growing");
do {
    System.out.println(str);
} while (builder);
System.out.println(builder);

Answer

The code does not compile.

Status : Correct   **Marks : 1/1**

29.   What is the output of the following?

List<String> drinks = Arrays.asList("can", "cup");
for (int container = 0; container < drinks.size(); container++)
    System.out.print(drinks.get(container) + ",");

Answer

can,cup

Status : Correct   **Marks : 1/1**

30.   What does the following code output?

```
public static void main(String[] args)
{
    List<String> bottles = Arrays.asList("glass", "plastic");
    for (int type = 0; type < bottles.size();)
    System.out.print(bottles.get(type) + ",");
    break;
    System.out.print("end");
}
```

Answer

The code does not compile

Status : Correct   *Marks : 1/1*