

Total Marks : 1MARKS OBTAINED 1

Total Marks **36 / 40****36/40**

## Question 1

1

What is the correct syntax to declare a variable in Java?

☐ var name;☐ String name;☒ int name;

## Question 2

1

Which of the following is a primitive data type in Java?

☐ String☐ Integer☒ Boolean

## Question 3

1

What is the output of the following code?

```
String name = "John";
```

```
System.out.println(name.length());
```

☐ 3☒ 4☐ 5

## Question 4

1

What is the syntax for a do-while loop in Java?

☐ while (condition) { }

☒ do { } while (condition);

☐ for (initialization; condition; increment) { }

## Question 5

1

What is the result of the following code?

```
int a = 10;
```

```
int b = 5;
```

```
int result = a + b * 2;
```

```
System.out.println(result);
```

☐ 20

☒ 25

☐ 30

## Question 6

1

What is a method in Java?

☒ A block of code that performs a specific task

☐ A variable that stores data

☐ A loop that repeats a set of instructions

## Question 7

1

What is the difference between a method and a function in Java?

- ☐ There is no difference, they are the same thing
- ☐ A function returns a value, a method does not
- ☒ A method is defined inside a class, a function is not

## Question 8

1

What is the correct way to call a method in Java?

- ☐ methodName;
- ☒ methodName();
- ☐ methodName(param1, param2);

## Question 9

1

What is the output of the following code?

```
int num = 5;
while (num > 0) {
    System.out.println(num);
    num--;
}
```

- ☐ 1 2 3 4 5
- ☒ 5 4 3 2 1
- ☐ 5

## Question 10

1

What is the result of the following code?

```
String str1 = "Hello";  
String str2 = "World";  
String str3 = str1 + " " + str2;  
System.out.println(str3);
```

☒ "Hello World"

☐ "HelloWorld"

☐ "World Hello"

## Question 11

1

What is the output of the following Java code snippet?

```
int x = 5;  
int y = ++x * 3 + x-;  
System.out.println("x = " + x + " y = " + y);
```

☐ x = 5, y = 20

☐ x = 5, y = 21

☒ x = 4, y = 21

☐ x = 4, y = 20

## Question 12

1

What is the output of the following Java code snippet?

```
int a = 10;  
int b = 20;  
if (a == b) {  
    System.out.println("a is equal to b");  
}
```

```
} else if (a > b) {  
  
System.out.println("a is greater than b");  
  
} else {  
  
System.out.println("a is less than b");  
  
}
```

☐ a is equal to b

☐ a is greater than b

☒ a is less than b

☐ None of the above

## Question 13

1

What is the output of the following Java code snippet?

```
int day = 5;  
  
String dayName;  
  
switch (day) {  
  
case 1:  
  
dayName = "Sunday";  
  
break;  
  
case 2:  
  
dayName = "Monday";  
  
break;  
  
case 3:  
  
dayName = "Tuesday";  
  
break;  
  
case 4:  
  
dayName = "Wednesday";  
  
break;  
  
case 5:  
  
dayName = "Thursday";
```

```
break;

case 6:

dayName = "Friday";

break;

case 7:

dayName = "Saturday";

break;

default:

dayName = "Invalid day";

break;

}

System.out.println("Day name: " + dayName);
```

☒ Day name: Thursday

☐ Day name: Invalid day

☐ Day name: Friday

☐ None of the above

## Question 14

1

What is the output of the following Java code snippet?

```
int[] numbers = {1, 2, 3, 4, 5};

int sum = 0;

for (int i = 0; i < numbers.length; i++) {

sum += numbers[i];

}

System.out.println("Sum: " + sum);
```

☐ Sum: 10

☒ Sum: 15

☐ Sum: 20☐ None of the above

## Question 15

1

What is the output of the following Java code snippet?

```
String str = "Hello World";  
System.out.println("Length: " + str.length());  
System.out.println("Substring: " + str.substring(6));  
System.out.println("Index of 'W': " + str.indexOf('W'));
```

☒ Length: 11, Substring: World, Index of 'W': 6☐ Length: 11, Substring: World, Index of 'W': 5☐ Length: 10, Substring: World, Index of 'W': 6☐ Length: 10, Substring: World, Index of 'W': 5

## Question 16

1

What is the output of the following Java code snippet?

```
int x = 5;  
if (x < 10) {  
    System.out.println("x is less than 10");  
} else {  
    System.out.println("x is greater than or equal to 10");  
}
```

☒ x is less than 10☐ x is greater than or equal to 10☐ Compilation error

☐ None of the above

## Question 17

1

What is the output of the following Java code snippet?

```
int[] numbers = {1, 2, 3, 4, 5};  
int sum = 0;  
for (int i = 0; i < numbers.length; i++) {  
    if (i % 2 == 0) {  
        sum += numbers[i];  
    }  
}  
System.out.println("Sum: " + sum);
```

☐ Sum: 6

☒ Sum: 9

☐ Sum: 10

☐ Sum: 11

## Question 18

1

What is the output of the following Java code snippet?

```
String[] fruits = {"apple", "banana", "orange"};  
for (String fruit : fruits) {  
    System.out.println(fruit);  
}
```

☒ apple, banana, orange

☐ "apple", "banana", "orange"

☐ [apple, banana, orange]



☐ None of the above

## Question 19

1

What is the output of the following Java code snippet?

```
String str1 = "Hello";
```

```
String str2 = "World";
```

```
String str3 = str1.concat(str2);
```

```
System.out.println("Concatenated string: " + str3);
```

☐ Concatenated string: HelloWorld

☐ Concatenated string: Hello World

☒ Concatenated string: HelloWorld

☐ None of the above

## Question 20

1

What is the output of the following Java code snippet?

```
int x = 5;
```

```
while (x < 10) {
```

```
System.out.println("x is less than 10");
```

```
x++;
```

```
}
```

```
System.out.println("x is now " + x);
```

☐ x is less than 10, x is now 10

☐ x is less than 10, x is now 9

☐ x is now 10

☒ None of the above

## Question 21

1

What is OOPS?

☒ Object Oriented Programming System

☐ Object Oriented Programming Solution

☐ Object Oriented Programming Syntax

☐ Object Oriented Programming Style

## Question 22

1

Which of the following is not an object-oriented programming concept?

☐ Inheritance

☐ Polymorphism

☒ Exception Handling

☐ Encapsulation

## Question 23

1

Which of the following is not a primitive data type in Java?

☐ byte

☐ short

☐ int

☒ string

## Question 24

1

What is the default value of an integer data type in Java?

☒ 0

☐ 1

☐ null

☐ -1

## Question 25

1

What is the use of the keyword “static” in Java?

☒ It indicates that a variable or method is related to the class and not to any instance of the class

☐ It indicates that a variable or method is related to an instance of the class and not to the class itself

☐ It indicates that a variable or method is public and can be accessed from outside the class

☐ It indicates that a variable or method is private and can only be accessed from within the class

## Question 26

1

Which of the following is not a type of inheritance in Java?

☐ Single inheritance

☒ Multiple inheritance

☐ Multilevel inheritance

☐ Hybrid inheritance

## Question 27

1

What is the purpose of the “super” keyword in Java?

- ☒ It is used to call the constructor of the superclass
- ☐ It is used to call the constructor of the subclass
- ☐ It is used to access the instance variables of the superclass
- ☐ It is used to access the instance variables of the subclass

## Question 28

1

What is the purpose of the “this” keyword in Java?

- ☐ It is used to call the constructor of the superclass
- ☐ It is used to call the constructor of the subclass
- ☐ It is used to access the instance variables of the superclass
- ☒ It is used to refer to the current object

## Question 29

1

What is polymorphism in Java?

- ☒ It is the ability of an object to take on many forms
- ☐ It is the process of hiding the implementation details and showing only the functionality to the user
- ☐ It is the process of creating multiple instances of a class
- ☐ It is the process of creating a new class from an existing class

## Question 30

1

What is encapsulation in Java?

- ☐ It is the ability of an object to take on many forms
- ☒ It is the process of hiding the implementation details and showing only the functionality to the user
- ☐ It is the process of creating multiple instances of a class
- ☐ It is the process of creating a new class from an existing class

## Question 31

1

What is an array in Java?

- ☐ A collection of unrelated objects
- ☒ A collection of related objects
- ☐ A collection of primitive data types
- ☐ A collection of wrapper classes

## Question 32

1

How do you declare an array in Java?

- ☐ `int array = new int[];`
- ☒ `int[] array = new int[];`
- ☐ `array int = new int[];`
- ☐ `array[] int = new int[];`

## Question 33

1

What is the index of the first element in an array?

☒ 0

☐ 1

☐ -1

☐ None of the above

## Question 34

1

What is the purpose of the length property in Java arrays?

☒ It returns the number of elements in the array

☐ It returns the sum of all the elements in the array

☐ It returns the average value of all the elements in the array

☐ It returns the maximum value of all the elements in the array

## Question 35

1

How do you access a specific element in an array?

☒ array[element]

☐ array[element-1]

☐ array[element+1]

☐ None of the above

## Question 36

1

What is an array index out of bounds exception?

- ☒ An error that occurs when you try to access an element of an array that doesn't exist
- ☐ An error that occurs when you try to access an element of an array that is too large
- ☐ An error that occurs when you try to access an element of an array that is too small
- ☐ An error that occurs when you try to access an element of an array that is not a valid data type

## Question 37

1

Can you change the size of an array after it has been declared?

☐ Yes☒ No

## Question 38

1

What is a two-dimensional array in Java?

- ☒ An array that can hold multiple rows and columns
- ☐ An array that can hold only one row and multiple columns
- ☐ An array that can hold only one column and multiple rows
- ☐ An array that can hold only one row and one column

## Question 39

1

How do you initialize a two-dimensional array in Java?

- ☐ `int[][] array = {{1,2},{3,4}};`
- ☐ `int[][] array = {{1,2,3},{4,5,6},{7,8,9}};`

☐ `int[][] array = new int[3][3];`

☒ All of the above

## Question 40

1

What is a jagged array in Java?

☐ An array that has a fixed number of rows and columns

☒ An array that has a fixed number of rows but varying number of columns

☐ An array that has a varying number of rows and columns

☐ An array that can hold only one element