

JAVA

1. Select the valid statement.*

- a) `char[] ch = new char(5);`
- b) `char[] ch = new char[5];`
- c) `char[] ch = new char();`
- d) `char[] ch = new char[];`

Correct Answer: b) `char[] ch = new char[5];`

2. Automatic type conversion is not possible in which case?*

- a) Byte to int
- b) Int to long
- c) Long to int
- d) Short to int

Correct Answer: c) Long to int

3. What is the size of float and double in Java?

- a) 32 and 64
- b) 32 and 32
- c) 64 and 64
- d) 64 and 32

Correct Answer: a) 32 and 64

4. Number of primitive data types in Java are?*

- a) 6
- b) 7
- c) 8
- d) 9

Correct Answer: c) 8

5. Predict the output of the program:

```
String str = "I like JAVA";
```

```
System.out.println(str.length());*
```

- a) 12
- b) 11
- c) 10
- d) 9

Correct Answer: b) 11

6. Predict the output of the program:

```
String s = {"hibernate", "java", "object"};
Arrays.sort(s); for(String k : s) {
    System.out.println(k); }
```

- a) java hibernate object
- b) hibernate java object
- c) hibernate object java
- d) object java hibernate

Correct Answer: b) hibernate java object

7. Predict the output of the program:

```
char ch = 127; ch++;
```

```
System.out.println(ch + " = " + (int)ch);
```

- a) compilation error
- b) ? = 128
- c) garbage value = -128
- d) none of the above

Correct Answer: c) garbage value = -128

8. _____ is also known as a static variable.

- a) class variable
- b) instance variable
- c) local variable
- d) all of the above

Correct Answer: a) class variable

9. Object includes?

- a) Attributes
- b) Behaviour
- c) Both
- d) None

Correct Answer: c) both

10. To find the length of the string:*

- a) a.length;
- b) a.length()

Correct Answer: b) a.length()

11. Which operator gives a result if no condition satisfies?

- a) IN
- b) OR
- c) NOT
- d) AND

Correct Answer: c) NOT

12. Which is not the correct declaration?*

- a) int a_1
- b) int 1_a
- c) int A1
- d) None

Correct Answer: b) int 1_a

13. Tick the correct one:

- a) Java is platform-independent
- b) JVM is platform-dependent
- c) JVM converts bytecode into machine-level code
- d) All of these

Correct Answer: d) All of these

14. Given the code snippet:

```
static int a = 1;
```

```
void Inc() { a++; System.out.println(a); } Inc(); Inc();
```

- a) 1, 1
- b) 1, 2
- c) 2, 3
- d) 2, 2

Correct Answer: c) 2, 3

15. Which among the following falls under key elements of programming?

- a) Good analytical skills
- b) Declarative knowledge
- c) Imperative knowledge
- d) Abstraction knowledge in programming
- e) All of these

Correct Answer: e) All of these

16. What is the extension of Java code files?

- a) .java
- b) .class
- c) Both 1 and 2
- d) .txt

Correct Answer: a) .java

17. Which is not an OOP concept?*

- a) Compilation
- b) Polymorphism
- c) Encapsulation
- d) Inheritance

Correct Answer: a) Compilation

18. Select the valid statement to declare and initialize an array.*

- a) int[] A = 0;
- b) int[] A = [1,2,3];
- c) int[] A = (1,2,3);
- d) int[] A = {1,2,3};

Correct Answer: d) int[] A = {1,2,3};

19. Arrays in Java are:

- a) Object references
- b) Objects
- c) Primitive data type
- d) None

Correct Answer: b) Objects

20. Identify the correct definition of a package.

- a) A package is a collection of editing tools
- b) A package is a collection of classes
- c) A package is a collection of classes and interfaces
- d) A package is a collection of interfaces

Correct Answer: c) A package is a collection of classes and interfaces

21. In which of the following is the `toString()` method defined?

- a) `java.lang.Object`
- b) `java.lang.String`
- c) `java.util`
- d) None

Correct Answer: a) `java.lang.Object`

22. What is the output of the following code?

```
import java.util.Scanner;  
public class Solution {  
    private String name = "TATA"; public static void main(String[] args) {  
        Solution t = (Solution) new Object(); System.out.println(t.name); }}*
```

- a) Runtime error
- b) TATA
- c) Compile error
- d) None of the above

Correct Answer: a) Runtime error

23. What is the output of the following code?

```
public static void main(String[] args) {  
    int var1 = 1; if (var1)  
        System.out.println("Inside If Condition"); }
```

- a) Inside If Condition
- b) Does not print anything
- c) Compilation error
- d) Runtime error

Correct Answer: c) Compilation error

24. What is the output of the following code?

```
public static void main(String[] args) {  
    int var1; if (var1 == 0)  
        System.out.println("Inside If Condition");
```

- a) Inside If Condition }
- b) Does not print anything
- c) Compilation error
- d) Runtime error

Correct Answer: c) Compilation error

25. Which modifier can be used to prevent any method or attribute from being visible to external classes?

- a) Private
- b) Public
- c) Protected
- d) Default

Correct Answer: a) Private

26. Which modifier can be used to restrict a method or attribute from being visible outside its package?

- a) Private
- b) Public
- c) Protected
- d) Default (No modifier)

Correct Answer: d) Default (No modifier)

27. If a package name contains more than one word, the words must be separated by...

- a) Comma
- b) Dot
- c) Hyphen
- d) underscore

Correct Answer: b) underscore

28. Which component is used to compile, debug, and execute a Java program?*

- a) JIT
- b) JRE
- c) JVM
- d) JDK

Correct Answer: d) JDK

29. What is the extension of compiled Java classes?*

- a) .java
- b) .txt
- c) .class
- d) .exe

Correct Answer: c) .class

30. Which of these cannot be used as a variable name in Java?

- a) Identifier & keyword
- b) Keyword
- c) Identifier
- d) None of these

Correct Answer: b) Keyword

31. What does the expression
expression1 ? expression2 : expression3 return?

- a) Float
- b) Integer
- c) Boolean
- d) String

Correct Answer: c) Boolean

32. Which of these is a long data type literal?

- a) 0x99ffffa
- b) 0x99fffL
- c) 99671246
- d) 99671246L

Correct Answer: b) 0x99fffL

33. Which of these is the superclass of every class in Java?

- a) String class
- b) Object class
- c) Abstract class
- d) ArrayList class

Correct Answer: b) Object class

34. Which of these keywords can be used to prevent inheritance of a class?

- a) Constant
- b) Class
- c) Super
- d) Final

Correct Answer: d) Final

35. What is the output of the following code?

```
import java.util.Scanner;  
public class Solution {  
    public static void main(String[] args) {  
        double d1 = 50; float d2 = 10;  
        float d3 = d1 / d2; System.out.println(d3); }  
}
```

- a) Runtime error
- b) 5.0
- c) Compile error
- d) 5.0f

Correct Answer: c) Compile error

36. Which of the following is correct about JVM?

- a) JVM is responsible for converting bytecode to machine-specific code
- b) JVM is platform-dependent and provides core Java functionality
- c) Both a and b
- d) None of these

Correct Answer: c) Both a and b

37. Strings in Java are mutable.

- a) True
- b) False

Correct Answer: b) False

38. What is the output of the following code?

```
import java.util.Scanner;  
public class Solution {  
    public static void main(String[] args) {  
        byte b = 200; System.out.println(b); }  
}
```

- a) 200
- b) Compile error
- c) Runtime error
- d) -127

Correct Answer: b) Compile error

39. What is Runnable?

- a) Abstract class
- b) Interface
- c) Class
- d) Method

Correct Answer: b) Interface

40. Identify the infinite loop.*

- a) `for(;;)`
- b) `for(int i = 0; i < 1; i--)`
- c) `for(int i = 0; ; i++)`
- d) All of the above

Correct Answer: d) All of the above