

11. A static variable in java is also known as a class variable.

12. There could not be multiple var-arg parameters in a method declaration in java.

13. A class declared as final can be extended by another class.

14. We can create an object of an abstract class using the new operator.

15. Is it a valid code in java?

```
Object obj = new String("Hello World");
```

16. Is this is a valid syntax of for loop in java where "arr" is an "int type array reference".

```
for(int i:arr){
```

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

```
}
```

17. Is this is a valid syntax of for loop in java where "arr" is an "int type array reference".

```
for(int i=0; i<arr.length;){
```

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

```
}
```

18. private methods and variable could be accessed from within the class in java

19. The NullPointerException occurs in java program when a variable containing floating point value is assigned to a reference variable having "null" value;

20. A "catch block" may be followed by a "finally block", optionally.

Select the right option:-

21. Which one is a valid declaration of a Boolean in java?

A. boolean b1 = 1;

B. boolean b2 = 'false';

C. boolean b3 = false;

D. boolean b4 = 'true'

22. Which of these constructors is used to create an empty String object in java?

A. String()

B. String(void)

C. String(0)

D. None of the mentioned

23. Which of these is an incorrect array declaration?

A. int arr[] = new int[5]

B. int [] arr = new int[5]

C. `int arr[] = new int[5]`

D. `int arr[] = int [5] new`

24. Which of these keywords is used to define packages in Java?

A. `pkg`

B. `import`

C. `package`

D. `include`

25. Which of the following package stores all the standard java classes and do not need an explicit

`import`?

A. `lang`

B. `java`

C. `util`

D. `java.packages`

26. Which of these keywords is used by a class to use an interface defined previously?

A. `import`

B. `export`

C. `implements`

D. `extends`

27. Which of the following is not a valid code?

A. `List<String> list = new LinkedList<String>();`

B. `List<String> list = new ArrayList<String>();`

C. `List list = new ArrayList();`

D. `List list = new List();`

28. Which statement is most appropriate.

Java is a

A. Compiled language

B. Procedural language

C. Interpreted language

D. Both compiled and Interpreted language

29. What would happen if "String [] args" is not included as an argument in the main method of the class

you are trying to run?

- A. Program would run successfully
- B. Compilation error
- C. Program won't run
- D. Program would exit and print 0

30. When a non-abstract class implements an interface, it must provide behavior for

- A. two methods declared in that interface
- B. none of the methods declared in a interface
- C. only one method declared in that interface
- D. every method declared in that interface

31. Which of these classes are the direct subclasses of the Throwable class?

- A. RuntimeException and Error class
- B. Exception and VirtualMachineError class
- C. Error and Exception class
- D. IOException and VirtualMachineError class

32. final float pi = 3.14f;

The above line of code in java means

- A. pi is a floating-point constant
- B. pi is a floating-point variable
- C. pi is a non-floating-point constant
- D. pi is a non-floating-point variable

33. What is the process of defining more than one method in a class differentiated by method signature?

- A. method overriding
- B. method overloading
- C. method doubling
- D. method extending

34. When does method overloading is determined?

- A. At the run time
- B. At the compile-time
- C. At the exception time
- D. At the execution time

35. Classes could be

- A. public,default,protected and private
- B. public,default and protected only
- C. public and default only
- D. public only

### SECTION – B (20 Marks)

Attempt any FOUR Questions out of SIX. Each question carries 5 marks.

| Question                                                                                                                                                                                                 | CO | BL |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| Q1) Write down the steps to compile and interpret a java file on command prompt. Explain each step separately.                                                                                           | 1  | L2 |
| Q2) What is for-each statement in java? Write a java program using for-each statement that uses a LinkedList<String> for displaying its elements on the console.                                         | 3  | L1 |
| Q3) What is method overloading in java? Explain with the help of suitable code example.                                                                                                                  | 2  | L4 |
| Q4) How does a java program accepts a command line argument? Write a program to multiply two floating point values received as command line argument and display the result.                             | 3  | L3 |
| Q5) Differentiate between a no-arg and a parameterized constructor. A class Car, has just one parameterized constructor. Will the following line compile? Justify your answer.<br>Car myCar = new Car(); | 5  | L1 |
| Q6) what are wrapper classes in java? Also explain why they exist while the primitive types are already part of java constructs.                                                                         | 4  | L5 |

**SECTION – C (20 Marks)**

Attempt any TWO Questions out of FOUR. Each question carries 10 marks.

| Question                                                                                                                                                                         | CO | BL |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| Q1. What is Object class in Java ? discuss the overriding of equals() method with code example of a Student class.                                                               | 2  | L6 |
| Q2) a)What is a Thread in java. Explain thread management in java.<br>b)Explain the concept of over-riding in java with code example.                                            | 5  | L4 |
| Q3. a) Discuss purpose of final key word when used with class, method and variable declarations.<br>b) Write a note on static keyword. Write suitable code to explain in detail. | 3  | L4 |
| Q4) Give the difference between interface and abstract class in java? When to use which of the two?                                                                              | 1  | L1 |