

Core Java- Paper-2

1. An Interface with no fields and methods is known as?
 - a) Runnable Interface
 - b) Marker Interface
 - c) Abstract Interface
 - d) Functional interface

2. Which option is false about the final keyword?
 - a) A final Method cannot override
 - b) A final class cannot be extended
 - c) A final variable cannot be reinitialize.
 - d) All the above.

3. In which memory a String is stored, when we create using new operator?
 - a) Stack
 - b) String Memory
 - c) String Constant Pool
 - d) Random Storage Space

4. In java, jar stands for?
 - a) Java Archive Runner
 - b) Java Application Resource
 - c) Java Application Runner
 - d) None of the above

5. What will be the output of the following program?

```
StringBuffer sb=new StringBuffer("complete");  
sb.setCharAt(1,'l');  
sb.setCharAt(7,'d');  
System.out.println(sb);
```

- a) complete
 - b) iomplede
 - c) colplet d
 - d) cimpletd
6. Which of the following is a mutable class in java?
- a) java.lang.String
 - b) java.lang.Byte
 - c) java.lang.Short
 - d) java.lang.StringBuffer

7. What will be the output of the following program?

```
abstract class Test  
{  
  
    abstract num(int a,int b){}  
  
}
```

- a) No Error
- b) Method is not Defined properly
- c) Constructor is not defined
- d) Extra Parenthesis.

8. What is meant by the classes and objects that dependents on each other?

- a) Cohesion
- b) Loose Coupling
- c) Tight Coupling
- d) None of the Above

9. How to implement inheritance in java?

- a) import
- b) extends
- c) implements
- d) package

10. A class will accept how many modifiers?

- a) public
- b) final
- c) abstract
- d) All the above

11. What is true about encapsulation?

- a) All variables must be private
- b) All variables must have setter and getter method
- c) Both a & b
- d) None of the Above

12. What is the main objective of Abstraction?

- a) Reusability
- b) Security
- c) Flexibility
- d) Efficient

13. How to check default constructor in java?

- a) javap -c class_name
- b) java -c file_name
- c) java default -c class_name
- d) java d -c class_name

14. Why do we use “this” keyword in java?

- a) To refer super class members
- b) To refer current class members
- c) Both a & b
- d) None of the Above

15. Object level executions are called?

- a) Early Loading
- b) Middle Loading
- c) Lazy Loading
- d) Fast Loading

16. Which is not an OOPS concept?

- a) Encapsulation
- b) Polymorphism
- c) Exception
- d) Abstraction

17. Which feature of OOPS describes the reusability of a code?

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

18. The main usage of polymorphism is?
- a) Reusability
 - b) Security
 - c) Flexibility
 - d) Duplicate
19. Which concept is known as purely abstract class?
- a) Interface
 - b) Polymorphism
 - c) Abstraction
 - d) Method Hiding
20. In java we can't extends more than one class simultaneously.
- a) TRUE
 - b) FALSE
21. Which inheritance is not supported by Java?
- a) Multi-Level Inheritance
 - b) Hierarchical Inheritance
 - c) Multiple Inheritance
 - d) Single Level Inheritance
22. Which of the following is not a java feature?
- a) Dynamic
 - b) Multi-Threaded
 - c) Use of Pointers
 - d) Object Oriented

23. What is the use of the intern() method?

- a) It returns the existing string from memory
- b) It creates a new string in the database
- c) It modifies the existing string in the database
- d) None of the above

24. A synchronized keyword is applicable for?

- a) Variables and Methods
- b) Blocks and Methods
- c) Variables, Methods and Blocks
- d) Variables, Methods, Blocks and Constructors

25. Having same method name with different arguments is called?

- a) Method overloading
- b) Method Overriding
- c) Method Hiding
- d) Constructor overloading

26. What would be the output of below code?

```
class Test{  
    public static void main(String[] args){  
        System.out.println("string-arg Method");  
    }  
    Public static void main(int[] i){  
        System.out.println("int-arg Method");  
    }  
}
```

- a) Compile Time Error
- b) Runtime Error
- c) string-arg Method
- d) int-arg Method

27. Using which modifier, method overriding is not possible?

- a) public
- b) abstract
- c) strictfp
- d) final

28. What happens if we display object reference?

```
Test t=new Test();
```

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

- a) Test@Hexadecimal
- b) null
- c) Garbage Value
- d) 0

29. For any class if we allow to create only one object is called?

- a) Abstract class
- b) Concrete class
- c) Singleton class
- d) Inner class

30. Inner class does not accept?

- a) Public members
- b) Private members
- c) Protected members
- d) Static members

Programs

1. Write a java program to perform sum of digits of a given number then find out that number is even or odd?

Input:

123

Output:

It is even number (1+2+3 = 6)

2. Write a java program to display fibonacci sequence of a given number?

Input:

6

Output:

0 1 1 2 3 5 8

3. Write a java program to display below loop pattern?

A A A A

B B B B

C C C C

D D D D