

## Unit-1 : OOP Concepts and Java Programming

### ★ VVI 21 MCQs with Answers

1. Java was developed by:

- a) Microsoft
- b) Sun Microsystems
- c) Apple
- d) IBM

**Ans: b) Sun Microsystems**

2. Java is a:

- a) Procedural language
- b) Machine language
- c) Object Oriented language
- d) Assembly language

**Ans: c) Object Oriented language**

3. Which feature allows code reuse?

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

**Ans: b) Inheritance**

4. JVM stands for:

- a) Java Variable Machine
- b) Java Virtual Machine
- c) Java Verified Machine
- d) Java Vendor Machine

**Ans: b) Java Virtual Machine**

5. JDK contains:

- a) Only JVM
- b) Only JRE
- c) JRE + Development Tools
- d) Compiler only

**Ans: c) JRE + Development Tools**

6. Which keyword is used to define a class?

- a) define
- b) class
- c) object
- d) new

**Ans: b) class**

7. Which symbol is used to end a statement in Java?

- a) :
- b) ;
- c) ,
- d) .

**Ans: b) ;**

8. Which loop executes at least once?

- a) for
- b) while
- c) do-while
- d) nested loop

**Ans: c) do-while**

9. Which data type stores true/false values?

- a) int

- b) char
- c) boolean
- d) float

**Ans: c) boolean**

10. Which operator is used for comparison?

- a) =
- b) ==
- c) &&
- d) ++

**Ans: b) ==**

11. Which method is entry point of Java program?

- a) start()
- b) run()
- c) main()
- d) init()

**Ans: c) main()**

12. Java source file extension is:

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

**Ans: b) .java**

13. Bytecode is executed by:

- a) Compiler
- b) JVM
- c) JDK
- d) Editor

**Ans: b) JVM**

14. Which statement is used for decision making?

- a) if
- b) for
- c) switch
- d) Both a and c

**Ans: d) Both a and c**

15. Which is not a Java keyword?

- a) static
- b) public
- c) include
- d) class

**Ans: c) include**

16. Java is platform independent because of:

- a) Compiler
- b) JVM
- c) OS
- d) RAM

**Ans: b) JVM**

17. Which operator is used for logical AND?

- a) &
- b) &&
- c) ||
- d) !

**Ans: b) &&**

18. Which data type stores decimal values?

- a) int
- b) char
- c) float

d) boolean

**Ans: c) float**

19. Which package is imported by default?

a) java.io

b) java.lang

c) java.util

d) java.net

**Ans: b) java.lang**

20. Which function is used to print output?

a) print()

b) System.out.println()

c) echo()

d) display()

**Ans: b) System.out.println()**

21. Java compiler command is:

a) java

b) javac

c) compile

d) jvm

**Ans: b) javac**

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## Unit-2 : Objects, Classes and Constructors in Java

### ★ VVI 21 MCQs with Answers

1. An object is an instance of:

a) Method

b) Class

c) Package

d) Constructor

**Ans: b) Class**

2. Which keyword creates object?

a) class

b) new

c) this

d) static

**Ans: b) new**

3. Constructor name must be same as:

a) Method

b) Variable

c) Class

d) Package

**Ans: c) Class**

4. Constructor has:

a) Return type

b) No return type

c) int type

d) void type only

**Ans: b) No return type**

5. Method overloading means:

a) Same method name with different parameters

b) Same class name

- c) Different method names
- d) Same constructor

**Ans: a) Same method name with different parameters**

6. Which keyword refers current object?
- a) super
  - b) this
  - c) static
  - d) final

**Ans: b) this**

7. Static members belong to:
- a) Object
  - b) Class
  - c) Method
  - d) Package

**Ans: b) Class**

8. Which access modifier is most restrictive?
- a) public
  - b) protected
  - c) private
  - d) default

**Ans: c) private**

9. Which modifier allows access everywhere?
- a) private
  - b) protected
  - c) public
  - d) default

**Ans: c) public**

10. Which keyword prevents inheritance?
- a) static
  - b) final
  - c) super
  - d) this

**Ans: b) final**

11. Garbage collection frees:
- a) CPU
  - b) Memory
  - c) Compiler
  - d) Files

**Ans: b) Memory**

12. Which method is called automatically for garbage collection?
- a) finalize()
  - b) delete()
  - c) free()
  - d) destroy()

**Ans: a) finalize()**

13. Constructor overloading means:
- a) Multiple constructors with same name
  - b) Multiple classes
  - c) Multiple objects
  - d) Multiple packages

**Ans: a) Multiple constructors with same name**

14. Which keyword is used for inheritance?
- a) extends
  - b) implement
  - c) import

d) package

**Ans: a) extends**

15. Which method can be overloaded?

a) Constructors

b) Static methods

c) Final methods

d) Both a and b

**Ans: d) Both a and b**

16. Object creation allocates memory in:

a) Stack

b) Heap

c) ROM

d) Cache

**Ans: b) Heap**

17. Which is not an access modifier?

a) public

b) private

c) protected

d) local

**Ans: d) local**

18. Which keyword is used to inherit parent class constructor?

a) this

b) super

c) static

d) final

**Ans: b) super**

19. A class can contain:

a) Methods

b) Variables

c) Constructors

d) All of these

**Ans: d) All of these**

20. Which method binds during runtime?

a) Static binding

b) Dynamic binding

c) Early binding

d) Compile-time binding

**Ans: b) Dynamic binding**

21. Default constructor is provided by:

a) JVM

b) Compiler

c) User

d) OS

**Ans: b) Compiler**

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## Unit-3 : Inheritance, Interfaces and Packages

### ★ VVI 21 MCQs with Answers

1. Inheritance improves:

a) Code reuse

b) Memory waste

- c) Errors
- d) Complexity

**Ans: a) Code reuse**

2. Java supports multiple inheritance through:

- a) Classes
- b) Interfaces
- c) Objects
- d) Packages

**Ans: b) Interfaces**

3. Which keyword is used for interface?

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

**Ans: b) interface**

4. Abstract class contains:

- a) Abstract methods
- b) Concrete methods
- c) Both
- d) None

**Ans: c) Both**

5. Which keyword accesses parent class members?

- a) this
- b) super
- c) final
- d) static

**Ans: b) super**

6. Runtime polymorphism is achieved by:

- a) Overloading
- b) Overriding
- c) Constructors
- d) Packages

**Ans: b) Overriding**

7. Which keyword is used to implement interface?

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

**Ans: c) implements**

8. Package is a collection of:

- a) Arrays
- b) Classes
- c) Variables
- d) Methods

**Ans: b) Classes**

9. Which keyword imports package?

- a) include
- b) using
- c) import
- d) package

**Ans: c) import**

10. Which inheritance is not supported by classes in Java?

- a) Single
- b) Multilevel
- c) Hierarchical

d) Multiple

**Ans: d) Multiple**

11. Object class is superclass of:

a) String

b) Array

c) All classes

d) Packages

**Ans: c) All classes**

12. Abstract method has:

a) Body

b) No body

c) Constructor

d) Object

**Ans: b) No body**

13. Which keyword creates package?

a) import

b) package

c) include

d) extends

**Ans: b) package**

14. Dynamic method dispatch occurs during:

a) Compile time

b) Runtime

c) Loading

d) Editing

**Ans: b) Runtime**

15. Interface methods are by default:

a) private

b) protected

c) public abstract

d) static

**Ans: c) public abstract**

16. Which class cannot be inherited?

a) Abstract

b) Final

c) Static

d) Public

**Ans: b) Final**

17. CLASSPATH is used to locate:

a) Methods

b) Packages and classes

c) Variables

d) Files only

**Ans: b) Packages and classes**

18. Method overriding requires:

a) Same method signature

b) Different class names

c) Static methods

d) Constructors

**Ans: a) Same method signature**

19. Which concept allows one interface with many forms?

a) Encapsulation

b) Polymorphism

c) Abstraction

d) Compilation

**Ans: b) Polymorphism**

20. Java package avoids:

- a) Duplication
- b) Naming conflicts
- c) Errors
- d) Threads

**Ans: b) Naming conflicts**

21. Which keyword prevents method overriding?

- a) final
- b) static
- c) super
- d) protected

**Ans: a) final**