

**Yashwantrao Chavan College of Science, Karad**  
**Department of Computer Science**  
**Question Bank**

**B.Sc. Part – III Optional Semester – V**  
**Computer Science Paper – IX Core Java**

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**Q.1. Select the correct alternative and rewrite the sentence.**

1. JIT stands for \_\_\_\_

- |                      |                        |
|----------------------|------------------------|
| a) Just in Temporary | b) <b>Just in Time</b> |
| c) Jump in Time      | d) joke in Time        |

2. JVM stands for \_\_\_\_

- |                                |                          |
|--------------------------------|--------------------------|
| a) <b>Java Virtual Machine</b> | b) Joint virtual machine |
| c) java virtual means          | d) joint virtual minute  |

3. Bytecode is a highly optimized set of instructions designed to be executed by the Java run-time system, which is called the \_\_\_\_

- |                        |                     |
|------------------------|---------------------|
| a) JVM                 | b) IDE              |
| c) working environment | d) all of the above |

4. The command-line arguments are passes at \_\_\_\_.

- |                 |   |
|-----------------|---|
| a) run-time     | b) the time of executing a Java program |
| c) compile-time | d) the time of compiling a Java program |

5. Which is the alternative to SWITCH in Java language?

- |                    |               |
|--------------------|---------------|
| a) break, continue | b) for, while |
| c) if, else        | d) goto, exit |

6. When exceptions in Java do arise in code sequence?

- |                     |                       |
|---------------------|-----------------------|
| a) Run Time         | b) Can Occur Any Time |
| c) Compilation Time | d) None of these      |

7. Java source code is compiled into \_\_\_\_

- |                |              |
|----------------|--------------|
| a) source code | b) .obj      |
| c) .exe        | d) byte code |

8. \_\_\_\_keyword indicates that you are making a new class that drives from an existing class.

- |            |            |
|------------|------------|
| a) extent  | b) extend  |
| c) extends | d) extents |

9. What is a higher data type in Java language?

- |   |
|---|
| a) A data type which holds more data than other data types                |
| b) A data type whose size is more than other data types                   |
| c) A data type which can hold more precision digits than other data types |
| d) All the above  |



10. Which of the following is a method having same name as that of it's class?
- a) finalize
  - b) delete
  - c) class
  - d) constructor
11. \_\_\_\_method of Thread class is used to find out the priority given to a thread.
- a) Get()
  - b) ThreadPriority()
  - c) GetPriority()
  - d) GetThreadPriority()
12. Which keyword is used for accessing the features of a package?
- a) import
  - b) extends
  - c) export
  - d) imports
13. Java does not support \_\_\_\_\_ inheritance.
- a) single
  - b) multiple
  - c) multilevel
  - d) hierarchical
14. Which method is called only once during the run time of your applet?
- a) stop()
  - b) paint()
  - c) init()
  - d) destroy()
15. Which is a perfect example of runtime polymorphism?
- a) Method overloading
  - b) Method overriding
  - c) Constructor overloading
  - d) constructor overriding
16. \_\_\_\_keyword used to invoke immediate parent class method.
- a) super
  - b) final
  - c) static
  - d) finalize
17. Which of the access specifier can be used for an interface?
- a) Private
  - b) Protected
  - c) Public
  - d) Any Access Specifier
18. To prevent any method from overriding, we declare the method as \_\_\_\_.
- a) super
  - b) final
  - c) static
  - d) finalize
19. Which component is used to compile, debug and execute the java programs?
- a) JRE
  - b) JIT
  - c) JDK
  - d) JVM
20. Runnable is a \_\_\_\_\_.
- a) class
  - b) abstract class
  - c) interface
  - d) variable
21. The finalize() method is called just prior to \_\_\_\_\_.
- a) An object, variable or method goes out of scope.
  - b) An object or variable goes out of scope.



- c) A variable goes out of scope.
- d) Before garbage collection.
22. The implicit return type of a constructor is \_\_\_\_\_.
  - a) void
  - b) int
  - c) a class object in which it is defined
  - d) there is no return type.
23. Which of the modifier can't be used for constructors?
  - a) public
  - b) private
  - c) protected
  - d) static
24. What notifyAll() method do?
  - a) Wakes up one threads that are waiting on this object's monitor
  - b) Wakes up all threads that are not waiting on this object's monitor
  - c) Wakes up all threads that are waiting on this object's monitor
  - d) None of the above
25. When a class extends the Thread class, it should override \_\_\_\_\_ method of Thread class to start that thread.
  - a) start()
  - b) run()
  - c) init()
  - d) go()
26. \_\_\_\_\_ is used to include classes like Calender, Collection and Date etc.
  - a) java.util
  - b) java.io
  - c) java.net
  - d) java.awt
27. The built-in base class in Java, which is used to handle all exceptions, is
  - a) Raise
  - b) Exception
  - c) Error
  - d) Throwable
28. Which one of the following is correct?
  - a) Java applets can not be written in any programming language
  - b) An applet is not a small program
  - c) An applet can be run on its own
  - d) Applets are embedded in other applications
29. What is the extension of java code files?
  - a) .js
  - b) .txt
  - c) .class
  - d) .java
30. Which one of the following is not a Java feature?
  - a) Object-oriented
  - b) Use of pointers
  - c) Portable
  - d) Dynamic and Extensible
31. A package is a collection of \_\_\_\_\_.
  - a) classes
  - b) interfaces



- c) Both a & b
  - d) None of these
32. What is a higher data type in Java language?
    - a) A data type which holds more data than other data types
    - b) A data type whose size is more than other data types
    - c) A data type which can hold more precision digits than other data types
    - d) All the above
  33. Which of these is a super class of all errors and exceptions in the Java language?
    - a) RuntimeExceptions
    - b) Throwable
    - c) Catchable
    - d) None of these
  34. In java a thread can be created by \_\_\_\_\_.
    - a) Extending the thread class.
    - b) Implementing Runnable interface.
    - c) Both of a & b
    - d) None of these
  35. Which of the following is used to make an Abstract class?
    - a) Making at least one member function as pure virtual function
    - b) Making at least one member function as virtual function
    - c) Declaring as Abstract class using virtual keyword
    - d) Declaring as Abstract class using static keyword
  36. AWT stands for \_\_\_\_\_.
    - a) Abstract Window Toolkit
    - b) Absolute Window Toolkit
    - c) Abstract Window Team
    - d) Absolute Window Team
  37. \_\_\_\_\_ state means that the thread is ready for execution.
    - a) Running
    - b) Run
    - c) Runnable
    - d) StartRun
  38. Applet can be embedded in a \_\_\_\_\_ file.
    - a) MS Word
    - b) PHP
    - c) JavaScript
    - d) HTML
  39. In which package in Java, we can find the Exception class?
    - a) java.lang
    - b) java.util
    - c) java.io
    - d) java.awt
  40. What is the use of final keyword in Java?
    - a) When a class is made final, a subclass of it can not be created.
    - b) When a method is final, it can not be overridden.
    - c) When a variable is final, it can be assigned value only once.
    - d) All of these
  41. Which of the following constructor of class Thread is valid one?



- a) Thread(Runnable threadOb, int priority)
- b) Thread(int priority)
- c) Thread(Runnable threadOb, String threadName)
- d) Thread(String threadName, int priority)

42. \_\_\_\_\_ method cannot be overridden.

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

43. In Java, when we implement an interface method, it must be declared as \_\_\_\_\_

- a) private      b) protected      c) public      d) friend

**Q.2. Attempt Any Two of the following.**

1. Explain type casting with example.
2. What is thread priority? Explain it in detail.
3. What do you mean by applets? Explain life cycle of applets with suitable diagram.
4. Explain any four arithmetic operators used in Java.
5. What is package? How to create and use user defined packages in Java.
6. What is polymorphism? Explain compile-time polymorphism with example.
7. What is interface? How to implement an interface?
8. Explain in brief different types of data types supported by Java?
9. What is mean by packages? List out different in-built types of packages in Java.
10. Explain the life cycle of Applet.
11. Explain the term with example.
  - i. Class
  - ii. Object
  - iii. Method
12. What is package? Explain how to create and access package in Java.
13. Explain looping statements used in Java with example.
14. What do you mean by exception handling? Explain various types of built-in exceptions available in Java?
15. What do you mean by multithreading? How to create and extend thread class.  
Explain it with syntax and example.

**Q.3. Attempt Any Four of the following**

1. Explain the concept of this keyword.
2. Explain the concept of method overriding with example.
3. What is constructor? Explain parameterized constructor with suitable example.
4. Write the different features of Java
5. What is package? How it is defined?



6. What is inheritance? Explain single level inheritance with suitable example.
7. What is inheritance? Explain multi level inheritance with suitable example.
8. Discuss about Java Virtual Machine in detail.
9. Explain multiple catch statement with example.
10. What is an applet? Explain life cycle of an applet.
11. What is abstract class and method? Give its example.
12. Explain multiple catch statement with example.
13. What is Inheritance? Explain hierarchical inheritance with example.
14. Explain the difference between C++ and Java.
15. Explain the concept of AWT.
16. What is type casting? Explain it with example.
17. Explain in brief syntax of exception handling code.
18. Explain the features of Java
19. Define a package. List out different system packages of Java
20. Explain the concept of thread priority.
21. How to add applet code into HTML file.
22. Difference between method overloading and method overriding
23. What is polymorphism? Explain run-time polymorphism.
24. Explain abstract class with example.
25. What is multithreading? Explain thread priority in detail.
26. Define AWT package? Explain various component classes used in AWT package?

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