
Core Java (10 MCQs)

1. **Which of the following is not a valid Java keyword?**
 - a) `volatile`
 - b) `instanceof`
 - c) `synchronized`
 - d) `unsigned`
2. **Which data type will consume the most memory?**
 - a) `int`
 - b) `float`
 - c) `double`
 - d) `long`
3. **Which feature allows Java to be platform-independent?**
 - a) Bytecode
 - b) JVM
 - c) JDK
 - d) JIT Compiler
4. **Which collection does not allow duplicate values?**
 - a) `List`
 - b) `Set`
 - c) `Map`
 - d) `Queue`
5. **Which of the following is not a type of inner class?**
 - a) Anonymous class
 - b) Static nested class
 - c) Private class
 - d) Local class
6. **What is the default value of an instance variable of type `boolean` in Java?**
 - a) `true`
 - b) `false`
 - c) `null`
 - d) `0`
7. **Which method in `Object` class is used to create a shallow copy of an object?**
 - a) `clone()`
 - b) `copy()`
 - c) `replicate()`
 - d) `duplicate()`
8. **Which of the following is true about Java enums?**
 - a) Enums can extend a class
 - b) Enums can implement an interface
 - c) Enums can have constructors
 - d) Both (b) and (c)

9. **Which of the following is not a thread state in Java?**
- a) New
 - b) Running
 - c) Suspended
 - d) Terminated
10. **What will happen if the `run()` method is called directly instead of using `start()` in a thread?**
- a) The thread will start normally
 - b) The thread will not start and run as a normal method
 - c) It will throw an exception
 - d) The JVM will ignore the call
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Servlets (5 MCQs)

11. **Which of the following is not a method of the `HttpServletResponse` interface?**
- a) `sendRedirect()`
 - b) `setStatus()`
 - c) `getWriter()`
 - d) `getSession()`
12. **Which of the following is not true about Servlets?**
- a) Servlets are platform-independent
 - b) A Servlet runs in a single-threaded model by default
 - c) `doPost()` is used for secure data transmission
 - d) Servlets can handle multiple requests simultaneously
13. **Which method of `ServletContext` is used to get an initialization parameter?**
- a) `getInitParameter()`
 - b) `getParameter()`
 - c) `getContextParameter()`
 - d) `getConfigParameter()`
14. **What is the default scope of a Servlet attribute?**
- a) Request scope
 - b) Session scope
 - c) Application scope
 - d) Thread scope
15. **What is the default HTTP status code when a Servlet fails to process a request?**
- a) 200
 - b) 404
 - c) 500
 - d) 302
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JSP (5 MCQs)

16. **Which JSP directive is used to import a Java package?**
- a) `<jsp:import>`
 - b) `<%@ include %>`
 - c) `<%@ page import %>`
 - d) `<jsp:useBean>`
17. **Which tag in JSP is used to define a JavaBean?**
- a) `<jsp:setProperty>`
 - b) `<jsp:useBean>`
 - c) `<jsp:getProperty>`
 - d) `<jsp:bean>`
18. **Which of the following statements about JSP expressions (`<%= %>`) is true?**
- a) They execute Java code inside them
 - b) They evaluate and send output to the response
 - c) They can modify request attributes
 - d) They are used to declare methods
19. **Which implicit object is used to store application-wide parameters in JSP?**
- a) `session`
 - b) `config`
 - c) `application`
 - d) `pageContext`
20. **Which is the correct order of execution of JSP elements?**
- a) Directive → Declaration → Scriptlet → Expression
 - b) Declaration → Directive → Expression → Scriptlet
 - c) Scriptlet → Directive → Declaration → Expression
 - d) Expression → Scriptlet → Declaration → Directive
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JUnit (5 MCQs)

21. **Which JUnit annotation is used to test expected exceptions?**
- a) `@Test(expected = Exception.class)`
 - b) `@ExpectException(Exception.class)`
 - c) `@Throws(Exception.class)`
 - d) `@Expected(Exception.class)`
22. **What is the purpose of the `@RunWith` annotation in JUnit?**
- a) To specify test runner class
 - b) To define test cases
 - c) To create a test suite
 - d) To execute assertions
23. **What is the return type of assertion methods in JUnit?**
- a) `boolean`
 - b) `void`
 - c) `int`
 - d) `String`

24. **Which JUnit feature allows grouping multiple test classes together?**
- a) Test Suite
 - b) Test Collection
 - c) Test Package
 - d) Test Group
25. **Which mocking framework is most commonly used with JUnit?**
- a) Mockito
 - b) JMock
 - c) PowerMock
 - d) All of the above
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Maven (5 MCQs)

26. **Which Maven plugin is used to execute unit tests?**
- a) maven-test-plugin
 - b) surefire-plugin
 - c) junit-plugin
 - d) testng-plugin
27. **Which command is used to build and skip tests in Maven?**
- a) mvn clean install
 - b) mvn clean install -DskipTests
 - c) mvn package
 - d) mvn deploy
28. **Which section of pom.xml is used to define external dependencies?**
- a) <plugins>
 - b) <dependencies>
 - c) <repositories>
 - d) <modules>
29. **What does the mvn clean command do?**
- a) Deletes compiled Java classes
 - b) Deletes target directory
 - c) Removes old dependencies
 - d) Both (a) and (b)
30. **Which Maven command is used to generate a project from an archetype?**
- a) mvn new project
 - b) mvn archetype:generate
 - c) mvn create
 - d) mvn init
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Core Java Answers

1. **(d)** unsigned
 2. **(c)** double
 3. **(a)** Bytecode
 4. **(b)** Set
 5. **(c)** Private class
 6. **(b)** false
 7. **(a)** clone()
 8. **(d)** Both (b) and (c)
 9. **(c)** Suspended
 10. **(b)** The thread will not start and run as a normal method
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Servlets Answers

11. **(d)** getSession()
 12. **(b)** A Servlet runs in a single-threaded model by default
 13. **(a)** getInitParameter()
 14. **(c)** Application scope
 15. **(c)** 500
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JSP Answers

16. **(c)** <%@ page import %>
 17. **(b)** <jsp:useBean>
 18. **(b)** They evaluate and send output to the response
 19. **(c)** application
 20. **(a)** Directive → Declaration → Scriptlet → Expression
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JUnit Answers

21. **(a)** @Test(expected = Exception.class)
 22. **(a)** To specify test runner class
 23. **(b)** void
 24. **(a)** Test Suite
 25. **(d)** All of the above
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Maven Answers

- 26. **(b)** surefire-plugin
 - 27. **(b)** mvn clean install -DskipTests
 - 28. **(b)** <dependencies>
 - 29. **(d)** Both (a) and (b)
 - 30. **(b)** mvn archetype:generate
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