

Name of Subject	Programming in Java	Subject Code	IT-14502
Batch	2017-2021	Class	D2IT A and B

2 marks qs

1. List four important features of Java language.
2. What is JVM?
3. Difference between application and applet.
4. Define Exception
5. Define Server Socket
6. What is dynamic method dispatch?
7. Use of String buffer class
8. URL connection.
9. Applets.
10. Use of String buffer class.
11. Java tokens.
12. Type casting.
13. Pros of Java programming language.
14. Static members.
15. List the data types available in Java.
16. Runnable interface
17. Define Exception
18. Define Server Socket
19. What is difference between interface and abstract class
20. Define socket.
21. What is the functionality of using is alive ()?
22. What are unchecked exceptions?
23. Why do we need socket programming?
24. What is difference between thread and a process?
25. What is use of keyword throws?
26. What is the functionality of using is alive ()?
27. What are unchecked exceptions?
28. What is a Wrapper Class?
29. What is use of final keyword?
30. Define run time Exception.
31. Difference between application and applet.
32. Why do we need socket programming?
33. What is difference between thread and a process?
34. What is use of keyword throws?
35. What is a Wrapper Class
36. Define garbage collection
37. What is use of final keyword?
38. What is difference between interface and abstract class
39. What is the use of "this" keyword?
40. What is the meaning of first line of java program "public static void main (String args[])?
41. JVM is a platform dependent (T/F). Justify your answer.

42. Define type casting.
43. What is difference between interface and abstract class?
44. What is meaning of final class?
45. Pros of Java programming language.
46. Static members.
47. List the data types available in Java.
48. What is a byte code?
49. What is the difference between final and finally?
50. Diff bw operator precedence and associativity
51. 3 OOP principles
52. Diff bw recursion and iteration
53. Command line arguments

5 marks qs

54. Explain what makes Java as platform independent language?
55. Explain Multithreading. How Java implements its Thread model?
56. Briefly explain the procedure of connecting front end application with any database using JDBC.
57. Explain about the applet and its life cycle.
58. What is string handling? Write a program to compare the two strings in java
59. Explain about interfaces. How they are different from the abstract classes?
60. Demonstrate the creation and handling of our own exception using any program
61. What is string handling? Write a program to compare the two strings in java
62. Write program in Java to convert a string in lower case to uppercase.
63. Write a program in Java to demonstrate operator overriding.
64. Explain the steps in creating a thread using runnable interface.
65. How do we pass parameters to applets in Java? Demonstrate with example
66. Write a program to implement the Fibonacci series using for loop control structure.
67. Write programs to demonstrate the difference between method overloading and method overriding in Java?
68. Briefly explain the procedure of connecting front end application with any database using JDBC.
69. Explain about the applet and its life cycle.
70. Explain about interfaces. How they are different from the abstract classes?
71. Demonstrate the creation and handling of our own exception using any program.
72. Write a program to implement the Factorial of a number using recursion in Java?
73. Write a program to reverse the string.
74. Explain Multithreading. Demonstrate with the help of example that how we set priorities in threads.
75. What is string handling? Write a program to append two strings in java.
76. What is inheritance? Demonstrate the use of Super keyword in inheritance with the help of example.
77. Explain the visibility controls in Java.
78. Write a program which produces alphabetical ordering of strings. For example if the input strings are "WAN", "LAN" and "MAN" then program should output "LAN", "MAN" and "WAN"
79. Why there is no multiple inheritance in java? How to implement multiple inheritance in java using interface?

80. Explain different types of operators used in java programming. Write a simple program to demonstrate operator precedence in java.
81. Explain in detail that makes java the most popular, preferable language over the years.

10 marks qs

82. Write Short note on: a) JVM b) Finalize vs final c) Super keyword d) Command line arguments
83. Write a program in Java to find first n prime numbers, where n is any integer and should be taken as input the user.
84. What are different types of Inheritance supported by Java explain in detail?
85. Explain the concept of Java Streams. Write a program to copy the content of one text file to another.
86. Write a program in java to do the following :
- a. To swap the two numbers without using the third variable.
 - b. Factorial of a number using recursion
87. What is exception handling? How multiple exceptions are caught in a single program? WAP to demonstrate the use of custom exception.
88. Write a short note on
- a. Throw Vs Throws
 - b. Thread Synchronization
 - c. Recursion
 - d. JDBC
89. Write program in Java to convert a string in lower case to uppercase.
90. 9. Write Short note on
- a) Thread synchronization
 - b) Socket programming
 - c) JIT Compilation
 - d) Applet
91. Explain the steps in creating a thread using runnable interface.
92. What is multilevel inheritance? Write a program to demonstrate it.
93. Write a note on inter-thread communication and discuss how it can be accomplished.
94. Explain the life cycle of an Applet
95. Explain different string handling functions and their syntax in java language
96. Write a short note on :
- a. Finalize
 - b. I/O streams
 - c. Socket programming
 - d. Multiple catch with single try statement
97. Explain different string handling functions and their syntax in java language
98. Write a short note on :
- a. Finalize
 - b. I/O streams
 - c. Socket programming
 - d. Multiple catch with single try statement
99. How do we pass parameters to applets in Java? Demonstrate with example

100. What is exception handling? How multiple exceptions are caught in a single program? WAP to demonstrate the use of custom exception.
101. 9. Write Short note on
 - a) Thread synchronization
 - b) Socket programming
 - c) JIT Compilation
 - d) Applets
102. Explain the following with the help of example :
 - a. Thread scheduling
 - b. JDBC
103. Write a short note on a. Throw Vs Throws b. Thread Synchronization c. Recursion d. JDBC
104. Menu driven code (using switch)
105. Swap two numbers:
 - a) without using third variable,
 - b) using * and / operators,
 - c) without using arithmetic operators (or using bitwise operator or using XOR operation)
106. <https://www.codementor.io/blog/java-interview-sample-questions-answers-du107xs23>