Course: Diploma in Computer Engg. **Year/Sem:** IInd/IVth

Subject: Java Programming **Code:** 22412

Chap 4: Exception Handling & Multithreading

1. What is thread? Draw thread life cycle diagram in Java.	S17
2. State three uses of final keyword.	S17
3. What is exception? WAP to accept a password from the user and throw "Authentication Failure" exception if the password is incorrect.	S17
4. Write a program to create two threads, one to print numbers in original order and other in reverse order from 1 to 10.	S17
5. Write a program to input name and balance of customer and thread an user defined exception if balance less than 1500.	W17
6. Write a program to create two thread one to print odd number only and other to print even numbers.	W17
7. What is the use of try catch and finally statement give example.	W17
8. What is exception? Why the exception occurred in program? Explain with suitable example.	W17
9. Write a program to define two thread one to print from 1 to 100 and other to print from 100 to 1. First thread transfer control to second thread after delay of 500 ms.	W17
10.Define throws and finally statement with syntax and example.	S18
11. With proper syntax and example explain following thread methods: (1) wait( ) (2) sleep( ) (3) resume( ) (4) notify( )	S18
12. With syntax and example explain try & catch statement.	S18
13. Write a java program to implement runnable interface with example.	S18
14. Write a java program to display all the odd numbers between 1 to 30 using for loop & if statement.	S18
15. State & explain types of errors in Java.	S18
16. Describe life cycle of thread.	W18
17. Explain following clause w.r.t. exception handling i) try ii) catch iii) throw iv) finally	W18
18. Explain following terms: i) Thread priority ii) Types of Exception	W18
19. Write a program to create two threads. so one thread will print even numbers between 1 to 10 whereas other will print odd number between 11 to 20.	W18
20. State use of finalize( ) method with its syntax.	S19
21. Write the syntax of try-catch-finally blocks.	S19
22. Give the syntax of < param > tag to pass parameters to an applet.	S19
23. Explain the two ways of creating threads in Java.	S19

24. Explain dynamic method dispatch in Java with suitable example. S19
25. Write a program to create two threads. One thread will display the numbers from 1 to 50 (ascending order) and other thread will display numbers from 50 to 1 (descending order). S19
26. Write a program to input name and salary of employee and throw user defined exception if entered salary is negative. S19
27. Define exception. State built-in exceptions. W19
28. Describe final variable and final method. W19
29. Explain thread priority and method to get and set priority values.
30. Write a program to define two thread one to print from 1 to 100 and other to print from 100 to 1. First thread transfer control to second thread after delay of 500 ms.
31. What is the use of wrapper classes in Java ? Explain float wrapper with its methods.
32. State three uses of final keyword.
33. What is thread priority ? Write default priority values and methods to Change them.
34. Write a program to generate Fibonacci series 1 1 2 3 5 8 13 21 34 55 89.
35. Write a program to create two threads, one to print numbers in original order and other in reverse order from 1 to 10.
36. Explain the following terms w.r.t exception handling:
(1) Try - catch
(2) Throw
(3) Throws
(4) Finally
37. Explain following thread methods with suitable example.
(1) setpriority (int max)
(2) getpriority( )
38. How synchronization is achieved in multi threading? Explain with suitable example.
39. Write a program to create user defined exception “Minimum Balance” if the account balance is less than Rs.1000/-.
40. Explain how interface is used to achieve multiple Inheritance in Java.
41. With proper syntax and example explain following thread methods :
(1) wait( )
(2) sleep( )
(3) resume( )
(4) notify( )
42. Explain following terms :

(i) Thread Priority
(ii) Types of Exception
43. Write a program to create two threads, so one thread will print even numbers between 1 to 10 whereas other will print odd numbers between 11 to 20.