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GOVT. COLLEGE OF ENGINEERING, KANNUR

Department of Computer Science and Engineering

III Semester First Series (Minor) Examination December- 2022 (2019 Scheme)

Course code: CST 281

Course Name: Object Oriented Programming

Max. Marks: 50

Duration: 1.30 Hours

PART A

Answer all questions. Each question Carries 3 marks

1. What is the use of the keyword final in Java? (3)
2. Differentiate between String and StringBuffer classes. (3)
3. Write a java program to read and print an integer value in Java. (3)
4. Describe the life Cycle of a thread. (3)
5. What are the advantages of multi-threading in Java? (3)

PART B

Answer one question from each module. Each question carries 14 marks

Module 3

6. Create an abstract class 'Bank' with an abstract method 'getBalance'. \$100, \$150 and \$200 are deposited in banks A, B and C respectively. 'BankA', 'BankB' and 'BankC' are subclasses of class 'Bank', each having a method named 'getBalance'. Call this method by creating an object of each of the three classes. (7)

OR

7. Write a suitable java program to implement the concept of Abstract class and method. (7)

Module 4

8. Discuss any four methods used for string processing in Java. (14)

OR

9. What are byte streams and character streams? Give examples of Java classes for each stream. (14)

Module 5

10. Discuss the methods of creating threads in Java using appropriate examples. (14)

OR

✓ 11. Describe the use of (i) suspend () (ii) resume () (iii) stop () methods of thread? (14)

Course Outcome (CO)

Sl No.	Description	Questions No.s
CO3	Illustrate how robust programs can be written in Java using exception handling mechanism	1,6,7
CO4	Write application programs for String handling and file operations in Java	2,3,8,9
CO5	Write application programs for Multithreading and Graphical User Interface by utilising event handling features & Swing in Java	4,5,10,11