II B. Tech II Semester Supplementary Examinations, December - 2023 JAVA PROGRAMMING

(Common to CSE,IT,CSE(CSBS),&CS)

Time: 3 hours Max. Marks: 70

Answer any FIVE Questions each Question from each unit All Questions carry **Equal** Marks UNIT-I a) Explain about Java Tokens with examples. [7M] Explain about static variables and methods in detail. [7M] Or Write the structure of java program. Explain in detail. 2 [7M] Write a java program to simulate the operation of numerical calculator to perform [7M] the functions Addition (+), Subtraction (-), Multiplication (*) and Division (/). **UNIT-II** a) Illustrate on constructor overloading. Explain with a suitable example. 3 [7M] Differentiate method overloading with method overriding with a suitable example. [7M] What is a constructor? What is its requirement in programming? Explain with a 4 [7M] sample program. Illustrate the use of static nested classes in detail. [7M] **UNIT-III** 5 a) List and explain any four methods of Object class. [7M] b) Define an interface. What is its role in multiple in heritance? [7M] Ora) Write a differences between Abstract class and Interface. 6 [7M] Write a Java program to find the area and perimeter of square and circle using [7M] b) interface. **UNIT-IV** 7 a) Discuss 'throw' and 'throws' keywords for exception handling. [7M] b) Explain nested try statements and multiple catch blocks with a suitable program. [7M]

Or

1 of 2

Code No: R2022054 (R20) (SET - 1)

8	a)	Write a note on dialog box usage in user interfaces.	[7M]
	b)	Write a simple applet program to display a string "India won by 1 wickets".	[7M]
		UNIT-V	
9	a)	With a neat sketch, describe the thread life cycle.	[7M]
	b)	Write a JDBC program to update the amount balance in an account after everywithdrawal. Assume the necessary database table. Or	[7M]
10	a)	Write a Java program to demonstrate multithreading operation.	[7M]
	b)	What is synchronization? Give its types and explain	[7M]