Cluster Innovation Centre End Semester Examination – June- 2024

Name of the Course: B. Tech (IT and MI)

Pape	e of the Paper: Object Oriented Programming (java) r Code: 3122611203 Semester tion: 3 Hrs. Maximum Mark	
Instructions to the candidates: Attempt any FIVE questions from the all. Question 1 and 4 are compulsory, rest all questions carry equal marks.		
Q. 1	Answer the following questions. (a). Differentiate between the roles of JDK, JVM and JRE. (b). What are threads? How they are implemented in Java? (c). Explain the concept of abstract class with example code. (d). Explain use of 'new' and 'this' in java. (e). Demonstrate the use of public, private and protected access modifiers with sample code.	20
Q. 2	What is meant by multi-level inheritance? Explain how java implements multi-level inheritance with a sample code.	9+9
Q. 3	What is run time polymorphism? Explain with code how java implements run time polymorphism.	9+9
Q. 4	 Write short notes on : i) Platform neutral ii) Constructor and destructor iii) Try and catch iv) File handling 	16
Q. 5	Differentiate between class and Interfaces. Explain how variable and methods are declared in interfaces.	9+9
Q. 6	What is meant by object oriented prograaming? How refrerring objects helps in better programming approach? Explain.	9+9
Q. 7	What are strings and how they are implemented in java? List various operations which can be performed on string in Java with example. ***	9+9