



Department of Artificial Intelligence & Machine Learning

Acharya Institute of Technology

Acharya Dr. Sarvepalli Radhakrishnan Road, Acharya P.O., Soladevanahalli, Bangalore-560107, INDIA

www.acharya.ac.in, Email: hod-aiml@acharya.ac.in

MODULE ASSESSMENT TEST - I [Academic Year: 2024-25]

Sub with Code: DBMS- BCS403

Semester/Section: 4 A

Max Marks: 20

Duration: 1Hr

Note: Answer any 2 of the following questions.(10 Marks Each)

Date: 13-03-2025

Q. No.	Question	CO	BL
1	With a neat block diagram, explain the architecture of a typical DBMS and the role of each component.	1	L2
2	Compare Database Management System (DBMS) and Early File Systems, bringing out the major advantages of the database approach.	1	L2
3	Define the following with one example each: a) Weak entity type b) Participation constraint c) Cardinality ratio d) Recursive relationship	1	L2
4	Develop an ER diagram for keeping track of information about a company database. Your diagram should consider at least five entities and relevant relationships.	1	L2