COMP 232 Database Management Systems

Computer Engineering / II Year / II Semester

Department of Computer Science and Engineering

First Internal Exam

SET B

Answer all questions. **[4*5=20]**

1. Explain the differences between strong and weak entity sets with examples.
2. Write the mathematical representation of a relationship. Compare binary and ternary relationships.
3. What are Selection, Projection and Cartesian in relational algebra? Explain with examples.
4. Design an ER diagram for a Library Management System showing various relationship types.
   a. Entities, Attributes, and Weak Entities
   b. 1:1, 1:M, N:1, N:M relationship
   c. An attribute associated with any relationship set