Course Code: MCA-108   Course Name: Database Management Systems
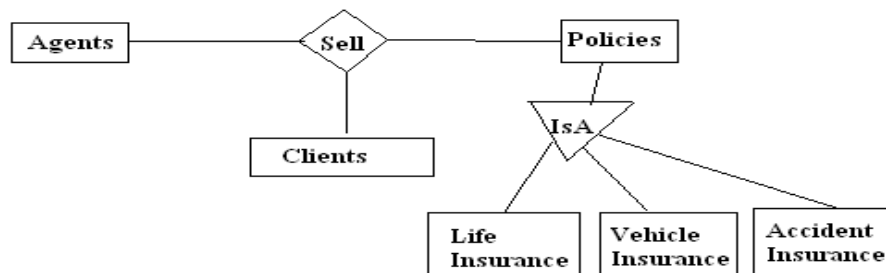
Class Test 1

Time: 1 Hour   Max Marks: 20

Note: All questions carry 5 marks.

1. Draw the ERD for a departmental shop. Take the entities to define different activities (like sales), employees (different types eg: Manager, Sales executives etc), customers and other departments or sections of the shop (like kids zone, Kitchen ware etc). Also take appropriate attributes to define the entities.

2. Differentiate between weak and strong entity set. Explain with example how weak entities are converted into strong entities.

3. Identify necessary attributes in the given ERD. And write DDL commands to create necessary tables for this ERD.

4. Draw an ERD for the following case study:
   The owner of a computer hardware repair shop would like to keep track of the repair jobs for computers they repair, the items or tools used for each repair job, the labor costs for each repair job, the repair-man doing repair job, and the total cost of repair job.
   When customers bring their computers for repair work, they make advance deposit for the repair job and are given a date to return and uplift their computer. Repair-man then repair customers' computers based on the repair job, and detail the labor costs and the items used for each repair job.
   When customers return they pay the remaining cost of the repair job, collect a receipt for their payment, and uplift the repaired computer using this payment receipt.