**Module Test – 1**

**Class : S4 AI**

**Course Code:**CST 204

**Course name:** Database Management System

**Part A: Answer All questions**

1. What are Characteristics of the Database Approach ?. Explain each one with suitable example ?

(3)

2. What are different classes of DBMS Language, Explain each with suitable examples (3)

**Part B: Answer any One questions** (14)

3. Construct an E-R diagram and Express in MIN-MAX notation

The company database keeps track of company’s employee, department and projects. We storeEmployee’s name,ssn,address,salary, gender,date of birth, age. An employee is assigned to one department, but may work on several projects which are not necessarily controlled by the same department. A particular employee manages the department. Each department has a unique name,unique number and several locations. The department controls number of projects each of which has a unique name, unique number and a single location. We want to keep track of the dependents of each employee for insurance purpose. We keep each dependent’s first name, sex,birth date and relationship to employee

4. Design an ER diagram for the following scenario: There is a set of teams, each team has an ID (unique identifier), name, main stadium, and to which city this team belongs. Each team has many players, and each player belongs to one team. Each player has a number (unique identifier), name, DoB, start year, and shirt number that he uses. Teams play matches, in each match, there is a host team and a guest team. The match takes place in the stadium of the host team. For each match, we need to keep track of the following: The date on which the game is played The final result of the match. The players participated in the match. For each player, how many goals he scored, whether or not he took the yellow card, and whether or not he took the red card. During the match, one player may substitute another player. We want to capture this substitution and the time at which it took place. Each match has exactly three referees. For each referee, we have an ID (unique identifier), name, DoB, years of experience. One referees the main referee and the other two are assistant referees