

**Second Mid Semester Examination,  
Database Management System (CS/AL-301)**

**Branch :CS/AIML Semester: III**

**Time 1:30 Hrs**

**Max. Marks 20**

**Note: All questions are compulsory**

**Q.1** Discuss basic concepts of normalization. Explain 1NF and 2NF

**OR**

**Q.1** Difference between 3NF and BCNF with example.

**(CO 3 6marks)**

**Q.2.** What is a Transaction? Explain about their states

**OR**

**Q.2** What is serializability? Explain types of types of serializability

**(CO 4 6 marks)**

**Q.3** Justify the need of privilege management in a RDBMS.

**OR**

**Q.3** Define the following terms and give examples

(i) Data dictionary (ii) Joins

**(CO 5 8 marks)**