



**Final Examination – 2007/2008**

**CSU3278: Database Management Systems: Paper II**

Duration: 2½ Hours

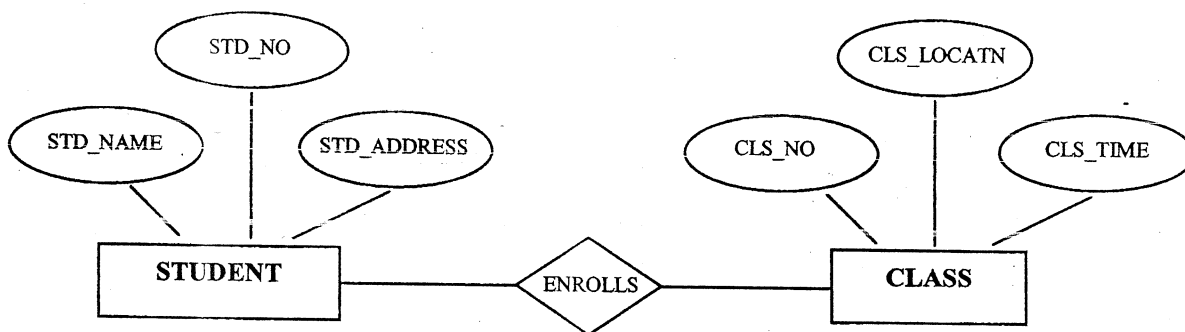
Date: 10.07.2008

Time: 10.00am – 12.30pm

Answer **FOUR** questions **ONLY**

(01)

(a) Transform the ER (Entity Relationship) diagram given below into the *Network* data model.



(b) Consider the following badly-conceived ER diagram where the entity sets have their usual interpretations: The idea is that each course can have different sections and many TAs. Assume we would like, in addition, to enforce the following constraints:

- A TA cannot be shared jointly by two or more courses or two or more sections of the same course.
- Every TA *must* serve for a section of some course.
- Course names are unique but Section numbers are unique only within a course.