Roll No.

(01/22-II)

5236

B. A./B. Sc. EXAMINATION

(Fifth Semester)

COMPUTER SCIENCE

Second Paper

Introduction to Database Systems

Time: Three Hours Maximum Marks: {B.Sc.:30}
B.A.:20

Note: Attempt Five questions in all. Q. No. 1 is compulsory. Attempt four more questions by selecting one question from each Unit.

- 1. (a) What do you mean by Record?
 - (b) What is meant by DBMS?
 - (c) Describe the term candidate key with example.

- (d) Define weak entity with the help of a suitable example.
- (e) What do you mean by Data?
- (f) Explain Base Table.

Unit I

- 2. What do you mean by Database? Describe the advantages of DBMS over Traditional File System.
- 3. What do you mean by Database Administrator?

 Discuss the responsibilities of Database

 Administrator.

Unit II

- 4. What do you mean by data model? Discuss record based data model and object based data model.
- 5. Explain three levels of database Architecture by drawing diagram. Also explain data independence. Discuss various types of data independence.

Unit III

- 6. Explain Simple and Composite Attributes, Single valued and Multi-valued attribute, Stored and Derived Attributes by taking example.
- 7. Draw an ER diagam for a system of your own choice. Also explain the Relationships and Constraints used in this ER diagram.

Unit IV

- 8. What do you mean by a Relation? Give an example. Also explain the properties of a relation.
- 9. Explain Domains and Integrity constraints in a relational database by taking example.