

Total No. of Questions : 4]

SEAT No. :

**PA-4981**

[Total No. of Pages : 1

**[6008]-233**

**S.E. (Information Technology) (In Sem)  
DATABASE MANAGEMENT SYSTEM  
(2019 Pattern) (Semester-II) (214452)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4.*
- 2) *Neat Diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicates full marks.*
- 4) *Assume Suitable data if necessary.*

- Q1)** a) Define: Super key, candidate key, primary key, secondary key, foreign key. [5]  
b) Differentiate between logical data independence and physical data independence. [5]  
c) Explain various function of each types of database user. [5]

OR

- Q2)** a) Draw, list and explain different component of database system architecture. [7]  
b) Write note on : [8]  
i) Data Abstraction  
ii) Data Modeling

- Q3)** a) List and explain (Any 5) codd's Rule. [6]  
b) What are the different type of Attributes? [4]  
c) Write a note on converting ER diagrams into tables. [5]

OR

- Q4)** a) List E-R diagram symbol & draw an E-R diagram for hospital management system with set of patient and set of medical doctors. Associate with each patient a log of the various test and examination conducted. [6]  
b) Explain with example Schema Diagram. [5]  
c) Write a short note on Enterprise constraint. [4]

