

Total No. of Questions : 4]

SEAT No. :

PD37

[Total No. of Pages : 1

[6409]-237

**S.E. (Information Technology) (Insem)  
DATABASE MANAGEMENT SYSTEM  
(2019 Pattern) (Semester - IV) (214452)**

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

- Q1)** a) Define Multi-user DBMS architecture. [5]  
b) Explain advantages of DBMS over file processing systems. [5]  
c) Explain role of Database Administrator in detail. [5]

OR

- Q2)** a) Explain Data abstraction in detail. [7]  
b) Write note on:  
i) System catalogs [8]  
ii) Data independence

- Q3)** a) Write a note on converting ER diagrams into tables. [5]  
b) Explain use of ER diagram in detail. [5]  
c) Explain use of EER diagram in detail. [5]

OR

- Q4)** a) Explain with example views. [7]  
b) Write a short note on Referential integrities. [8]

