

Total No. of Questions : 8]

SEAT No. :

P-7622

[Total No. of Pages : 2

[6180]-142

T.E. (Information Technology)

**ADVANCED DATABASE AND MANAGEMENT SYSTEM
(2019 Pattern) (Semester - I) (314445B) (Elective - I)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data, if necessary.

Q1) a) Explain features and advantages of MongoDB. [10]

b) Explain schemas in XML. [8]

OR

Q2) a) Explain Hive along with its architecture. [9]

b) Explain features and advantages of Cassandra. [9]

Q3) a) What is Decision Support System? Explain different types of Decision Support Systems. [9]

b) Draw and explain Datawarehouse Architecture. [8]

OR

Q4) a) Define the following terms : [8]

- i) Roll Up
- ii) Drill Down
- iii) Slice
- iv) Dice

b) What is Decision Support System (DSS)? Explain advantages and disadvantages of DSS. [9]

P.T.O.

Q5) a) Explain the descriptive modeling in detail. [9]

b) Explain any data mining tool in detail. [9]

OR

Q6) a) Define data mining. Explain data mining tasks with suitable example. [9]

b) Explain knowledge discovery process in detail. [9]

Q7) a) Write short note on : [8]

i) Geographical Information Systems

ii) Genome data management

b) What are active databases? Elaborate with example. [9]

OR

Q8) a) Write short notes on : [8]

i) Multimedia databases

ii) Mobile databases

b) Explain Deductive Databases. [9]

