

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]

