[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, Q7or 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]**

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