

Total No. of Questions : 8]

SEAT No. :

P-486

[Total No. of Pages : 2

[6003]-706

T.E. (Information Technology)

ADVANCED DATABASE & MANAGEMENT SYSTEM

(2019 Pattern) (Semester - I) (314445B) (Elective - I)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) Answer Q.1 or Q.2, 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 with example Four Types of No SQL Databases. Also explain Column-Oriented Database: Apache Cassandra. **[12]**

b) Explain Mongo DB NoSQL Database. **[6]**

OR

Q2) a) Explain NoSQL database Development Tool: MapReduce. Compare Relational and NoSQL databases. **[10]**

b) Explain NoSQL Programming Languages XML and JSON. **[8]**

Q3) a) What is Data warehouses? Explain characteristics and limitations of data Warehouse. **[8]**

b) Explain different OLAP Architectures. **[9]**

OR

Q4) a) Write a note on Decision support system. Explain with example views and Decision support. **[10]**

b) Define OLAP? Compare different OLAP Architecture. **[7]**

P.T.O.

- Q5)** a) What is KDD? Explain KDD seven step process with suitable diagram. **[10]**
b) Explain predictive and descriptive algorithms in data mining. **[8]**

OR

- Q6)** a) Explain different issues in Data mining task. Explain Data Preprocessing Tasks in KDD Process. **[10]**
b) Explain Pattern Evaluation and knowledge presentation steps in Data Mining. **[8]**

- Q7)** a) Compare Temporal, Spatial and Deductive Databases. **[5]**
b) Write a note on : **[12]**
i) Mobile databases
ii) Multimedia databases

OR

- Q8)** a) Write a note on : **[10]**
i) Geographical Information Systems (GIS)
ii) Genome data management.
b) Explain “Event-Condition- Action” model in Active Databases **[7]**

