

Total No. of Questions : 10]

SEAT No. :

P2362

[Total No. of Pages : 2

[5254] - 695
B.E. (I.T.) (Semester - II)
ADVANCED DATABASES
(2012 Pattern)

Time : 2½ hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.
- 2) Figures to the right indicate full marks.

Q1) a) Explain data replication in distributed DBMS? What is the difference between synchronous and asynchronous replication? [4]

b) What is DTD? Explain example of DTD for any XML document? [6]

OR

Q2) a) Explain main architectures for building parallel database system? [6]

b) What is data transparency? Explain different types of transparencies distributed databases should achieve? [4]

Q3) a) What are the similarities and differences between OODBMS and ORDBMS? [6]

b) Explain the replication strategy in Cassandra? [4]

OR

Q4) a) List and explain the four elements of Big data? [4]

b) Explain different methods of storing data in distributed database system in detail? [4]

c) Explain structured and unstructured data in object based databases? [2]

Q5) a) Explain in details apriori graph based approach for frequent subgraph mining? [8]

b) What is Data stream mining? Explain how data stream management system works? [8]

P.T.O.

OR

Q6) a) How stream classification performed? Explain any one method of stream classification? [10]

b) Explain relevance of big data and data analysis in E - commerce industry? [6]

Q7) a) What is text categorization? Which are various text categorization methods? Explain any one text categorization method in details. [10]

b) What is natural language processing (NLP)? Which are the tasks involved in NLP? [8]

OR

Q8) a) Explain recommender system? Which are the problems associated with recommender system? [10]

b) Explain in detail web usage mining and web content mining. [8]

Q9) a) Define temporal databases? Explain different types of temporal databases? Enlist the any two application of temporal databases? [8]

b) Explain the following [8]

i) Multimedia databases

ii) Cloud databases.

OR

Q10) a) Explain in details spatial data and spatial databases? Explain various application of spatial database? [8]

b) Define deductive databases? Explain various semantics of deductive databases? [8]

