Total No. of Questions : 12]

SEAT No. :

P3199

[Total No. of Pages : 2

B.E. (Computer Engineering)
ADVANCED DATABASES (410445)
(2003 Pattern) (Elective-I)

Time : 3 Hours] *[Max. Marks : 100*

Instructions to the candidates:

1) ***Answers to the two sections should be written in separate answer books.***
2) ***Section-I: Q. No. 1 or Q. No. 2, Q. No. 3 or Q. N. 4, Q. No. 5 or Q. No. 6.***
3) ***Section-II: Q. No. 7 or Q. No. 8, Q. No. 9 or Q. NO. 10, Q. No. 11 or Q. No. 12.***
4) ***Neat diagrams must be drawn wherever necessary.***
5) ***Figures to the right side indicate full marks.***
6) ***Assume suitable data, if necessary.***

SECTION-I

Q1) a) Explain in detail intra-query parallelism. **[8]**

b) Explain any two partitioning techniques. **[8]**

OR

Q2) a) What is meant by skew? Explain different ways of handling skew. **[10]**

b) Explain Fragment and Replicate join. **[6]**

Q3) a) Explain the following with respect to distributed databases. **[10]**

i) Data fragmentation.

ii) Two phase commit protocol.

b) What is meant by LDAP? Explain. **[8]**

OR

Q4) a) Explain the following with respect to distributed databases: **[10]**

i) Data Replication.

ii) Data transparency.

b) Explain any one locking protocol. **[8]**

P.T.O.

Q5) a) Write short note on: XML applications. [8]

b) Explain XML schema. [8]

OR

Q6) a) Write short note on: Web services. [8]

b) What is meant by XQuery? Explain. [8]

SECTION-II

Q7) a) Explain with neat diagram Data warehouse architecture. [8]

b) Explain Star schema for multidimensional data model. [8]

OR

Q8) a) Explain Snowflake schema for multidimensional data model. [8]

b) Write short note on: OLAP. [8]

Q9) a) What is meant by decision tree? Explain. [8]

b) Explain Bayesian classifier. [8]

OR

*Q10)*a) Explain k-means algorithm with suitable example. [10]

b) State apriori algorithm. [6]

*Q11)*a) Explain relevance ranking using terms. [10]

b) Explain the following terms: [8]

i) Synonyms.

ii) Homonyms.

OR

*Q12)*a) Explain the following terms: [12]

i) Web crawlers.

ii) Indexing of documents.

iii) Ontologies.

b) How to measure retrieval effectiveness? [6]

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