P805

[4066] - 503

T.Y.M.C.A. (Under Faculty of Engineering)
ADVANCED DATABASES
(2008 Course) (710903) (New) (Sem. - V)

Time : 3 Hours]　　　　　　　　　　　　　　　*[Max. Marks :70*

Instructions to the candidates:

1) *Answer to the two sections should be written in separate books.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right indicate full marks.*
4) *Assume suitable data, if necessary.*

SECTION - I

Q1) Explain File Scan and Index Scan Methods used to perform Selection Operation on a relation. **[11]**

OR

Q2) Explain Hash join Algorithm used to implement natural join and equi-joins.**[11]**

Q3) Explain in detail Centralized and Client Server System. **[12]**

OR

Q4) Explain the different architectural models used for Parallel Machines. **[12]**

Q5) a) Compare Object - Oriented and Object - Relational Databases. **[6]**

　　b) With an example explain the concepts of Nesting and Unnesting. **[6]**

OR

Q6) Explain the different approaches used to make an object persistent while turning a language into Data Base Programming Language. **[12]**

SECTION - II

Q7) a) Discuss the different data smoothing Techniques. **[8]**

　　b) Explain architecture of data warehouse. **[4]**

OR

Q8) a) Explain in detail the dimensional data modeling. **[8]**

　　b) Compare : OLTP and OLAP. **[4]**

Q9) a) Write short note: Apriori Algorithm. [7]

b) How we can make K-means algorithm for clustering scalable? [3]

c) What is decision support system? [2]

OR

Q10) a) Explain supervised and unsupervised clustering. [5]

b) What is Bayesian classifier? [4]

c) What is meant by outlier analysis? [3]

Q11) a) What are the drawbacks of page rank algorithm? [3]

b) Explain the following terms: [8]

i) Inverted index.

ii) Hyperlinks.

iii) Homonyms.

iv) Ontologies.

OR

Q12) a) Write short note : Popularity ranking. [7]

b) Explain the following terms. [4]

i) Signature files.

ii) Information Extraction.