

Con. 5448-09.

(REVISED COURSE)

SP-6950

Data Warehousing & Mining
(3 Hours)

[Total Marks : 100

22/12/09]

- N. B. : (1) Attempt any **five** questions out of remaining **six** questions.
(2) **All** questions carry **equal** marks.

1. (a) What is Data Warehouse? Why it is need? Is it just another Database management System? Compare and contrast with operational system.
(b) What are techniques and application of data mining?
2. (a) How are top-down and bottom up approaches for building data warehouse differ ? Discuss the merits and limitation of each approach? Also discuss the practical approach?
(b) Define classification. Explain k-nearest neighbour classification algorithm?
3. (a) Describe feature of web enabled data warehouse? Why data security a major concern for web-enabled data warehouse?
(b) Explain Temporal mining?
4. (a) Give information package for recording information requirement for "College Admission" considering dimensions likes time, seats, braches etc. Design Star schema from information package.? If possible draw Snowflake schema?
(b) Explain Data mining Query language?
5. (a) What is MDDDB? What types of business requirements determine use of MDDDB in Data warehouse?
(b) A database has four transactions
Let minimum-support =50% and minimum-confidence= 50%

Transaction ID	Items Bought
2000	A,B,C
1000	A,C
4000	A,D
5000	B,E,F

- i) Find all frequent timesets using Apriori algorithm.
 - ii) List strong association rules (with support S and Confidence C)
6. Write short note on(any TWO) :-
- (a) Spatial Mining
 - (b) HITS
 - (c) Web Usage Mining