

9/5/2013

B.E (I-T) Sem VII (A)

VI-F.H.Exam. April(1)-13-135

Con. 7596-13.

Data Warehousing Mining & GS-5344

(REVISED COURSE)

Business Intelligence

(3 Hours)

[Total Marks : 100

- N.B. : (1) Question No. 1 is **compulsory**.
(2) Attempt any **four** questions from **remaining six** questions.
(3) Assume **suitable** data if **required**.

1. Attempt any **four** :-

- (a) Give difference between OLTP and OLAP. 5
(b) Explain DBSCAN. 5
(c) Give difference between Classification and Clustering. 5
(d) Explain constraint based association rule mining. 5
(e) Explain Regression. 5
2. (a) List the dimension and facts for hospital management system and also draw star schema and snowflake schema. 10
(b) Why preprocessing is required ? 5
(c) Explain multidimension association rule. 5
3. (a) What is web structure mining ? Explain Technique of web structure mining. 10
(b) Explain data descritization and summarization with example. 10
4. (a) Define the following terms with example - 10
(i) Item set (ii) frequent item set (iii) closed item set.
(b) What is Market basket analysis ? Explain its use. 10
5. (a) Following table gives fat and proteins content of items. Apply single linkage clustering and construct dendrogram :- 10

Food item	Protein	Fat
1	1.1	60
2	8.2	20
3	4.2	35
4	1.5	21
5	7.6	15
6	2.0	55
7	3.9	39

- (b) Explain spatial data mining (SDM). Also explain a model of spatial data warehouse. 10
6. (a) Use k-mean Algorithm to create three clusters for given set of values :- 10
{ 2, 3, 7, 8, 9, 15, 17, 19, 25 }.
(b) Explain Hoeffding tree algorithm with example. 10
7. Write short notes on any **three** :- 20
(a) Spatial data cube construction (b) Bayesian classification
(c) Text mining approaches (d) Issues in data mining.
