

9/5/2013

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

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

Con. 7596-13.

Data Warehousing Mining &amp; 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.

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