



RF-3747-48

M. Sc. (Bio-Informatics) (Sem. - IV) Examination

April / May - 2010

405 - Data Warehouse & Data Mining

Time : 3 Hours]

[Total Marks : 70

RF-3747

Instructions :

नीचे दर्शाविए निशानीवाणी विगतो उत्तरवही पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
☛ M. SC. (BIO-INFORMATICS) (SEM. - 4)	<input type="text"/>
Name of the Subject :	<input type="text"/>
☛ 405 - DATA WAREHOUSE & DATA MINING	<input type="text"/>
☛ Subject Code No. : <input type="text" value="3"/> <input type="text" value="7"/> <input type="text" value="4"/> <input type="text" value="7"/>	<input type="text"/>
☛ Section No. (1, 2,.....) : <input type="text" value="1"/>	<input type="text"/>
	Student's Signature

1 Attempt any three 21

- Expain star schema for data warehouse taking practical example. Compare it with snowflake schema.
- Discuss applications of Time Series analysis as data mining techniques taking proper example.
- Define : data reduction. Describe: Dimensionality Reduction.
- Define : Data Warehouse. Explain its characteristics.

2 Attempt any two : 14

- Identify and describe the phases in the KDD process. How does KDD differ from data mining?
- Write in brief about Relational OLAP, Multidimensional OLAP, Hybrid OLAP.
- Describe Genetic algorithm and K-Nearest Neighbour algorithm.

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Subject Code No. : 3 7 4 7 Section No. (1, 2,.....) : 2

Seat No. :

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- 3 (a) Write a note on Decision Tree algorithm including concept of decision tree induction, attribute selection measure and tree pruning. 10

OR

- (a) Compare the following concepts. You may use an example to explain your point(s). Snowflake schema, galaxy schema, starnet query model.
- (b) Describe : OLAP operations in the Multidimensional Data Model. 6
- (c) Write a note on pattern class. 4
- 4 (a) Define : Data cube, dimensions, dimension table, fact table. Describe Multidimensional Data model using proper example. 7
- (b) Write a note on Association rule mining with proper example. 8

OR

- (b) Define: OLTP and OLAP. Compare : OLTP and OLAP. 8