



DRR-3279

Third Year B. Sc. (Computer Science) Examination

April / May - 2016

607-I : Generic Elective (IDS)

(Introduction to Data Warehousing & Data Mining)

Time : 3 Hours]

[Total Marks : 50

Instruction :

नीचे दृष्टावेव निशानीवाणी विगतो उत्तरवही पर अवश्य लिखवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
THIRD YEAR B. Sc. (COMPUTER SCIENCE)	<input type="text"/>
Name of the Subject :	<input type="text"/>
607-I : GENERIC ELECTIVE (IDS)	<input type="text"/>
Subject Code No. : <input type="text"/> 3 <input type="text"/> 2 <input type="text"/> 7 <input type="text"/> 9	<input type="text"/>
Section No. (1, 2,.....) : <input type="text"/> Nil	
	Student's Signature

1 Answer in brief : 14

- (1) Explain any two OLAP operations on data of Data warehouse.
- (2) Define the term : Data Integration. Also give an example.
- (3) Define the term Confidence w.r.t. Association rule mining.
- (4) Which kind of pre-processing needs to be done in order to bring data in to format required for Association Rule Mining?
- (5) What kind of data is more suitable for classification?
- (6) What is Prediction? Explain giving example.
- (7) Give any two applications of Clustering.

2 Answer in detail : (any two) 14

- (a) What is Data warehouse? How it differs from Database.
- (b) Explain ETL process for data warehousing in brief.
- (c) What is Single and Multidimensional Data model? Why Multidimensional Data model is more suitable for Data warehouse?

- 3** Answer in detail : (any two) **14**
- (a) What is data pre-processing? Why it is needed? Explain Data Reduction and Data Transformation in brief.
 - (b) Write notes on following :
 - (i) Data Mining related Query Language
 - (ii) Concept Description
 - (c) Define and differentiate the terms : Data Generalization and Data Characterizations. Also give example for both.
- 4** Answer in detail : (any two) **14**
- (a) Define the terms : Association and Association rule. What is association Rule Mining? What are the Applications of Association rule mining?
 - (b) Explain the process of deriving Single-Dimensional Boolean Association Rule from transactional Databases.
 - (c) Explain any two Applications of Association Rule Mining. Also explain how association rules are useful in Classification.
- 5** Answer in detail : (any two) **14**
- (a) Explain Decision Tree Induction based classification.
 - (b) Explain any two methods of Clustering in detail.
 - (c) Define and differentiate:
 - (i) Classification and Clustering
 - (ii) Bayesian classification and Association Rule based classification.
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