RAN-2003000205030051

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T. Y. B. Sc. (Computer Science) (Sem. - V)

Examination October - 2023

Introduction to Data Warehousing and Datamining : Paper - 507-4

Time: 2 Hours] **[Total Marks: 50**

સૂચના : / Instructions

(1) **નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.**
Fill up strictly the details of ☛ signs on your answer book

Name of the Examination:

☛ **T. Y. B. Sc. (Computer Science) (Sem. - V)**

Name of the Subject :

☛ **Introduction to Data Warehousing and Datamining : Paper - 507-4**

Subject Code No.: **2003000205030051**

Seat No.:

Student's Signature

Q. 1. Answer the Following in brief. (Any seven) **[14]**

a) What do you mean by data reduction? List its techniques.

b) Define terms support and confidence with association.

c) List various task of data transformation in data warehousing.

d) What do you mean by unsupervised learning?

e) Define the term: Data warehousing.

f) List ways to handle missing values during data cleaning.

g) What is Itemset? What is frequent itemset?

Q. 2. Answer the following in detail.

a) What is data mining? Explain KDD process with its steps. **[06]**

b) Discuss various requirements and challenges in Data Mining. **[06]**

OR

a) What do you mean by OLAP? Discuss its various operations. **[06]**

b) Discuss three tier architecture of Data Warehousing. **[06]**

Q. 3. **Answer the following in detail.**

a) Explain steps of "Apriori Algorithm" for mining frequent itemsets with suitable example. **[06]**

b) Discuss various models of data warehousing **[06]**

OR

a) Describe Rule based Classification. **[06]**

b) Discuss classification and prediction with proper examples. **[06]**

Q. 4. **Attempt the following. (Any three)** **[12]**

a) Explain data generalization.

b) Write a short note on Meta Data Repository.

c) Explain concept hierarchy in data mining in detail.

d) Compare descriptive and predictive mining.

e) Short note on supervised learning and unsupervised learning.
