BACHELOR OF TECHNOLOGY (CBCS) (2020 COURSE)
B.Tech.Sem - VI INFORMATION TECHNOLOGY : WINTER : 2024
SUBJECT: DATA WAREHOUSING & DATA MINING

Day : Saturday | Time : 10:00 AM-01:00 PM
Date : 07/12/2024 | W-24745-2024 | Max. Marks : 60

N.B :

1) All questions are **COMPULSORY.**
2) Figures to the right indicate **FULL** marks.
3) Draw neat and labeled diagrams **WHEREVER** necessary.
4) Assume suitable data if necessary.

Q.1 — Discuss the characteristics and operations on OLAP. Compare OLAP vs OLTP. **(10)**

OR

Q.1 Define "Schema". Enlist the various schema that can be utilized for a data warehouse and discuss any one of them in detail. **(10)**

Q.2 Enlist and explain the stages of "Knowledge Discovery in Databases" (KDD). Is KDD and data mining same or different? Justify your answer. **(10)**

OR

Q.2 What is data cleaning and data reduction? Whether they can be skipped in data mining process? Justify your answer. **(10)**

Q.3 When and why is multilevel association rule required in data mining? State and explain the approaches to multilevel association rule mining. **(10)**

OR

Q.3 How are data mining methods categorized? Discuss any three categories in detail. **(10)**

Q.4 How is backpropagation applied in data mining? Discuss the features and stepwise working of backpropagation in data mining. **(10)**

OR

Q.4 Illustrate the decision tree induction algorithm with an example. **(10)**

Q.5 What is clustering of high dimensional data? Enlist the challenges of clustering high dimensional data. Describe any one subspace clustering method. **(10)**

OR

Q.5 What is the purpose of partitioning in data mining? Illustrate the centroid based technique of partitioning with an example. **(10)**

Q.6 Which clustering algorithms can be implemented using the WEKA tool? Illustrate the steps involved in implementing any one of them on WEKA. **(10)**

OR

Q.6 What are association rule learners? How are they implemented in WEKA? Elaborate stepwise. **(10)**

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