Printed Pages– 3   Roll No. ....

333731(22)

B. E. (Seventh Semester) Examination, Nov.-Dec., 2021

New

(~~Old~~ Scheme)

(IT Branch)

DATA MINING & WAREHOUSING

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : *Part (a) of each question is compulsory. Attempt any **two** part from (b), (c) and (d) of each question.*

Unit-I

1. (a) What is Data Warehousing?   2

(b) Discuss Infrastructure and metadata with an example. 7

(c) Explain the Typical Data Warehouse Architecture in detail. 7

(d) What are the steps of Project planning and management of Data Warehousing? Explain its. 7

Unit-II

2. (a) Define ETL process? 2

(b) Differentiate between OLAP and OLTP? 7

(c) What is schema? Explain STAR and Snowflake Schema with example. 7

(d) What is Dimensional Modeling? Explain update to the dimensional table. 7

Unit-III

3. (a) Define Information. 2

(b) What is data model? Differentiate between ROLAP and MOLAP data models. 7

(c) Explain the various steps involved in Data Transformation. 7

(d) How many classes of users involve in Data Warehouse? Explain with example. 7

Unit-IV

4. (a) Define Data Mining. 2

(b) What is KDD process? Explain all steps with diagram. 7

(c) What is clustering? Explain K-means Algorithm of clustering. 7

(d) Define Association Rules? Explain Apriori Algorithm. 7

Unit-V

5. (a) What is Web Mining? 2

(b) Explain GUI based designing on a Data Mining query language. 7

(c) Discuss Web Structure Mining in detail. 7

(d) Explain systems products and research prototypes. 7