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Roll No. :

322832(22)

B. E. (Eighth Semester) Examination, April-May 2021

(New Scheme)

(CSE Branch)

DATA MINING & WAREHOUSING

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

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

Unit-I

1. (a) .List out various characteristics of data warehouse. 2

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- (b) Explain the three-tier data warehouse architecture and its various components. 7
- (c) Compare and contrast operational database system with data warehouse. 7
- (d) How many types of meta data in data warehouse? Explain in brief. 7

Unit-II

2. (a) Define Data Quality. 2
- (b) What do you mean by data mart? What are the different types of data mart? Explain in detail. 7
- (c) Explain various steps of ETL process. 7
- (d) Explain how OLAP technology helps in discovery driven exploration of data cubes. 7

Unit-III

3. (a) What are the objective of physical driven process? 2
- (b) What is the significance of OLAP in data warehouse? Describe OLAP operations with necessary example. 7

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- (c) Describe various user classes with their working in data warehousing. 7
- (d) Mark a comparisons between the MOLAP and HOLAP. 7

Unit-IV

4. (a) Define Data Mining. 2
- (b) What are the different clustering methods? Explain in detail. 7
- (c) How does the Naive Bayesian classification work? Explain. 7
- (d) Discuss the various applications of association analysis. 7

Unit-V

5. (a) List out various data mining applications. 2
- (b) With a neat diagram explain the architecture of data mining. 7
- (c) What do you understand by web content mining? Explain with an example. 7

(d) Write short notes on following : (any two) 7

(i) Temporal mining

(ii) Spatial mining

(iii) Trends in data mining