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322812 (22)

BE (8th Semester)

Examination, April-May 2021

Branch : CSE, IT

DATA MINING & WAREHOUSING

Time Allowed : Three Hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Sub question (a) of 2

marks is compulsory. Attempt any two sub

questions of 7 marks from (b), (c), (d). Assume

suitable data wherever necessary.

P.T.O.

Q. 1. (a) What do you understand by data consolidation ?   2

(b) Discuss the role of metadata in data warehouse and the multi dimensional data.   7

(c) With a block diagram explain the various aspects of a typical data warehouse architecture.   7

(d) How is a data warehouse different from a data base ? How are they similar ?   7

Q. 2. (a) State the significance of hierarchy of data. 2

(b) What is Dimensional Model ? How does it differ from a Relational Model ?   7

(c) Data consolidation is data modelling activity. This statement is true or not. Justify.   7

(d) Write short notes :   7

    (i) Data Extraction

    (ii) Data Design

Q. 3. (a) What are the various forms of data preprocessing ?   2

    (b) What are the different types of OLAP tools ? Explain the key features of each of them.   7

    (c) What are the aspects of performance tuning a data warehouse ? Explain them with example.   7

    (d) Write comparision between online analytical processing & online transaction processing.   7

Q. 4. (a) What is concept hierarchy ? Give an example.   2

    (b) What are the methods of association rule mining ? Explain them.   7

(c) What is clustering ? How does it differ from classification ? 7

(d) What are the different phases of the knowledge discover from database ? 7

Q. 5. (a) List the some applications of data mining. 2

(b) Discuss the importance of establishing a standardized data mining query language. What are the potential benefits and challenges involved in such a task ? 7

(c) What is a multimedia database ? Explain the methods of mining multimedia database ? 7

(d) Discuss Data Visualization with reference to Data Mining. 7