END TERM EXAMINATION

SEVENTH SEMESTER [B.TECH] NOVEMBER-DECEMBER 2018
le: ETCS-413 Subject: Data Mining and Business Intelligence

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Time: 3 Hours

Note: Attempt any five questions including Q no.1 which is compulsory.

(10x2.5=25)Q1 Answer all the following questions in brief:-(al What is Data warehouse? Discuss its characteristics. (b) What are the basic difference between OLAP and Data mining? (c) What is Dimensional modeling and how it is different from the E-R (d) What is data granularity in Data Warehouse? Je What is Data Mart? Differentiate between dependent and independent Data marts? (f) How decision tress assist in the process of data mining? Give two major differences between STAR schema and Snowflake schema? (h) Differentiate between drill down, rollup and slice and dice operations? (i) Explain the benefits of OLAP? (j) What are the characteristics of strategic information? State all the guidelines of Dr. Codd's for a DBMS system giving brief Q2 description about each? Q3 (a) What is Data Mining? Explain all the techniques of data mining in detail or with diagram? (b) What are HYPERCUBE? How do they apply in OLAP? (5) Q4 (a) What are the basic components of data warehouse explain with the help of diagram? (b) Explain Dimension Table in wide, the fact table is Deep. What is Fact less Fact Table? What are the various ways by which corporate can provide strategic Q5 information for decision making? Explain each in detail? (a) Explain the applications of data mining for Telecommunication industry? (b) Explain with diagram, Knowledge discovery phase? (7.5)(a) What is meta data? Why it is important? Discuss the 07 multidimensional data. What are the various types of meta data? (7.5) (b) Differentiate between operational system and information system. (5) (2.5x5=12.5)Explain the following in detail:-(a) MOLAP (b) ROLAP

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(e) Neural Networks
(d) Genetic Algorithms
(e) Information Package