

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Elaborate various OLAP server architectures with examples. (CO2)
- Q.24 Describe in detail the different stages in the Knowledge Discovery in Database (KDD) process. (CO4)
- Q.25 Explain different frequent itemset mining techniques with examples. (CO3)

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6th Sem / Artificial Intelligence & Machine Learning Subject : Data Warehousing and Data Mining

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Data warehouse stores: (CO1)
- a) Current data b) Historical Data
c) Random data d) Temporary data
- Q.2 OLAP is used for : (CO2)
- a) Transaction processing
b) Operational analysis
c) Analytical processing
d) Web mining
- Q.3 A fact table contains: (CO2)
- a) Foreign keys b) Measurable metrics
c) Only text data d) Temporary tables

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- Q.4 Which of the following is a major issue in data mining? (CO1)
- a) Online storage b) Clean interface
c) Data integration d) Data hiding
- Q.5 The concept of clustering is used to : (CO4)
- a) Identify relationships
b) Partitions similar data points
c) Predict missing values
d) Improve indexing
- Q.6 Which is the first step in KDD process? (CO3)
- a) Data mining b) Data Selection
c) Data transformation d) Data interpretation

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 MOLAP stands for _____. (CO2)
- Q.8 The process of transforming raw data into an understandable format is known as _____. (CO1)
- Q.9 A _____ is a subset of a data warehouse, focused on a specific area. (CO2)
- Q.10 In market Basket Analysis, we find frequent _____. (CO4)

- Q.11 Indexing method used in OLAP is _____. (CO2)
- Q.12 Name any one data warehouse model: _____. (CO1)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 What are the characteristics of a Data Warehousing? (CO1)
- Q.14 Explain types of OLAP servers. (CO2)
- Q.15 Explain Data integration with an example. (CO3)
- Q.16 What are the components of data warehouse architecture? (CO1)
- Q.17 Describe how Association Rule Mining is used in retail. (CO4)
- Q.18 What are the key differences between Star and Snowflake Schema? (CO4)
- Q.19 List and explain types of data to be mined. (CO3)
- Q.20 What is Concept Hierarchy Generation? (CO2)
- Q.21 How is data cleaning performed in preprocessing? (CO3)
- Q.22 Write short notes on different types of clustering methods. (CO4)