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Question Paper Code	12575
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B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Eighth Semester

Artificial Intelligence and Data Science

20AIEL802 - INTEGRATED DATA MANAGEMENT

Regulation - 2020

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

	Marks	K-Level	CO
1. List out the OLAP Operations.	2	K1	CO1
2. Define data cube.	2	K1	CO1
3. Why we need to Pre-process the data? Justify.	2	K1	CO2
4. Compare descriptive and predictive data mining.	2	K2	CO2
5. Write constraint based association mining.	2	K1	CO3
6. Draw the conditional FP_Tree.	2	K1	CO3
7. State the uses of decision trees in data mining.	2	K1	CO4
8. Define data classification.	2	K1	CO4
9. Interpret the cluster analysis.	2	K2	CO5
10. Give the applications of data mining.	2	K1	CO5

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) i) Explain the three- tier data warehouse architecture with neat diagram.	13	K2	CO1
OR			
b) i) Compare the types of OLAP Servers.	7	K2	CO1
ii) A Data Cube C, has n dimensions and each dimension has exactly P distinct values what is the maximum, minimum number of cells possible in the base cuboid.	6	K2	CO1
12. a) i) Interpret the different types of data in which mining can be performed.	5	K2	CO2
ii) Illustrate the architecture of a typical data mining system.	8	K2	CO2
OR			
b) i) Discuss about the major issues in data mining.	8	K2	CO2
ii) Summarize the various functionalities of data mining.	5	K2	CO2

13. a) Compare and contrast between association and correlation with example. 13 K2 CO3

OR

b) Analyze various kinds of mining association rules with example. 13 K4 CO3

14. a) Apply the naive bayesian classification algorithm in data mining. 13 K3 CO4

OR

b) Illustrate the decision tree induction algorithm in data mining. 13 K3 CO4

15. a) Explain the various clustering methods used in data mining. 13 K2 CO5

OR

b) Discuss in detail about the outlier detection and analysis. 13 K2 CO5

PART - C (1 × 15 = 15 Marks)

16. a) Illustrate the various application used in data mining. 15 K3 CO6

OR

b) Analyze the data mining task primitives with neat diagram. 15 K4 CO6