

**Elective - I : Data Warehousing & Mining**

P. Pages : 2

Time : Three Hours



**NKT/KS/17/7514**

Max. Marks : 80

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- Notes :
1. All questions carry marks as indicated.
  2. Solve Question 1 OR Questions No. 2.
  3. Solve Question 3 OR Questions No. 4.
  4. Solve Question 5 OR Questions No. 6.
  5. Solve Question 7 OR Questions No. 8.
  6. Solve Question 9 OR Questions No. 10.
  7. Solve Question 11 OR Questions No. 12.
  8. Due credit will be given to neatness and adequate dimensions.
  9. Assume suitable data whenever necessary.
  10. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Explain Data Warehousing Architecture. 8
- b) Explain following terms with example. 5
- a) Data Marts. b) Meta Data.

**OR**

2. a) Explain Decision Support System. 7
- b) Explain various steps in Data warehouse life cycle. 6
3. a) Explain fact table & Dimension Table with example. 7
- b) Explain the following terms. 7
- 1) Data cube. 2) Lattice of cuboid.

**OR**

4. a) Differentiate OLTP Vs OLAP system. 7
- b) Explain any one data warehouse scheme with example. 7
5. a) Explain knowledge discovery process. 7
- b) Distinguish between Data Mining & Query Tools. 6

**OR**

6. a) Explain Data preprocessing in details. 7
- b) Explain concept Hierarchy with example. 6

7. a) Distinguish between ROLAP & MOLAP. 7  
b) Explain characteristics of OLAP. 6

**OR**

8. a) Explain need of multidimensional analysis. 6  
b) What is classification? Explain classification of back propagation. 7
9. a) Explain Association Rule Mining. 7  
b) Explain constraint Based Association Mining. 7

**OR**

10. a) Explain Decision Tree Induction. 7  
b) Explain support vector machine. 7
11. a) Explain K-means partition method. 7  
b) Explain Grid based methods. 6

**OR**

12. a) Give application of data mining in following: 7  
1) Retail Industry 2) Telecommunication Industry.
- b) Explain concept of Text Data base mining. 6

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