

[Time:2.30 Hrs]

[Marks:75]

Please check whether you have got the right question paper.

- N.B:**
- 1. All question are compulsory.**
 - 2. Figures to the right indicate full marks.**

- Q.1 Attempt any three of the following: 15**
- a. What is KDD? Explain in detail.
 - b. What is the Data, Information, Knowledge and Wisdom Pyramid?
 - c. What are several types of DSSs
 - d. What is partitioning? Explain the term Centroid and clustroid.
 - e. What is Noisy data?
 - f. Explain in detail Business Intelligence Operational and Decision Support System.
- Q.2 Attempt any three of the following: 15**
- a. Explain in detail regression, clustering and sampling methods
 - b. What is Normalization? Explain 3rd,4th ,5th Normalization?
 - c. Explain ETL process in data warehouse.
 - d. Explain in detail regression, clustering and sampling methods
 - e. Explain K-mean Algorithm.
 - f. What is Normalization? Explain its types.
- Q.3 Attempt any three of the following: 15**
- a. What are the Benefits of Data Warehouse?
 - b. Explain the term Eigenvalue and Eigenvector with example.
 - c. What is Data cube operations?
 - d. Explain in details OLAP tools
 - e. State the advantages of Dimensional Modelling.
 - f. Explain the issues in data mining.
- Q.4 Attempt any three of the following: 15**
- a. Define association rule in details.
 - b. Explain Data Mining Architecture.
 - c. Explain two type of data warehouses design approach
 - d. Explain the techniques to improve efficiency of Apriori Mining.
 - e. What is ROC curve? What is the significance of ROC Curve?
 - f. What are recommendation System?
- Q.5 Attempt any three of the following: 15**
- a. Explain in detail Business Intelligence Operational and Decision Support System.
 - b. What is Noisy data?
 - c. Explain Virtual data warehouse
 - d. Explain FP-Growth algorithm with its advantages.
 - e. Identify and discuss the role of middleware tools.
 - f. Differentiate among a data mart, an ODS, and an EDW.

*****END*****