



17520

11718

3 Hours / 100 Marks

Seat No.

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- Instructions :** (1) *All questions are compulsory.*
(2) *Answer each next main Question on a new page.*
(3) *Illustrate your answers with neat sketches wherever necessary.*
(4) *Assume suitable data, if necessary.*

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| 1. A) Attempt any three : | 12 |
| a) Mention the ingredients of DSS. | |
| b) Why preprocessing of data is required ? | |
| c) Mention the need of OLAP. | |
| d) What is concept description ? | |
| B) Attempt any one : | 6 |
| a) Define and mention any four characteristics of data warehouse. | |
| b) Explain Data reduction techniques of data warehouse. | |
| 2. Attempt any two : | 16 |
| a) Draw and explain the block diagram of data wares architecture. | |
| b) Describe the OLAP operations in the multi- dimensional data models. | |
| c) Explain Apriori algorithm. | |
| 3. Attempt any four : | 16 |
| a) Describe the operational data stores. | |
| b) State the benefits of data warehousing. | |
| c) Explain snowflakes database. | |
| d) Explain constraint based association mining. | |
| e) Explain the significant role of meta data. | |

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4. a) Attempt **any three**: **12**
- i) Describe DSS knowledge base.
 - ii) Write a note on multi-dimensional database.
 - iii) Mention and state data cleaning technique.
 - iv) Describe concept hierarchy generation for numeric and categorical data.
- b) Attempt **any one**: **6**
- i) Explain market, basket analysis of association rule classification.
 - ii) Describe the history of DSS.
5. Attempt **any two**: **16**
- a) Describe the OLAP tools used in Data warehouse.
 - b) Explain data generalization and summarization based on characterization.
 - c) Describe the applications of knowledge discovery techniques, in fraud detection.
6. Attempt **any four**: **16**
- a) Write a note on sequential mining.
 - b) Describe the concept of data integration.
 - c) Write a note on text mining database.
 - d) State any four applications of data mining in business.
 - e) What is classification and prediction?
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