



17520

11819

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) *Figures to the **right** indicate **full** marks.*
 - (5) *Assume suitable data, if **necessary**.*
 - (6) *Use of Non-programmable Electronic Pocket Calculator is **permissible**.*

Marks

1. a) Attempt **any three** of the following : **12**
- i) Explain schemas for multidimensional databases.
 - ii) Explain the term DSS and Ingredient of DSS.
 - iii) Explain why preprocessing data.
 - iv) What is concept of description ?
- b) Attempt **any one** of the following : **6**
- i) Describe any six characteristics of data warehouse.
 - ii) Define metadata and classify metadata into technical and business metadata.
2. Attempt **any two** of the following : **16**
- a) Describe discretization and concept hierarchy generation for numeric and categorical data.
 - b) Explain the need for OLAP in data warehouse. What are the various OLAP tools ?
 - c) Explain Apriori Algorithm in detail with example.
3. Attempt **any four** of the following : **16**
- a) Explain benefits of data warehousing.
 - b) Explain DSS users and give the categories and classes of DSSs.
 - c) Describe the following schemas for multidimensional database.
 - i) Star
 - ii) Snowflakes
 - d) Describe Market basket analysis in association rule.
 - e) Describe data cleaning technique in data warehouse.

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4. a) Attempt **any three** of the following : 12
- i) Explain in detail operational data stores.
 - ii) Describe the following terms :
 - i) Star join
 - ii) Fact constellation measures.
 - iii) How does data reduction technique helps to reduce size of data ?
 - iv) Write stepwise procedure to building data warehouse.
- b) Attempt **any one** of the following : 6
- i) State the following mining techniques
 - i) Constraint based association mining
 - ii) Sequential mining
 - ii) Describe the method of Decision support system used to make decision in organisation.
5. Attempt **any two** of the following : 16
- a) Describe four different OLAP operation in the multidimensional model with neat diagram.
 - b) Explain the term generalization and summarization of data mining algorithms.
 - c) Define knowledge discovery and describe any six innovative techniques for knowledge discovery.
6. Attempt **any four** of the following : 16
- a) State the association rule in data mining.
 - b) State the data transformation with neat diagram.
 - c) State the term mining applied to world wide web.
 - d) Enlist any four applications of data mining in business.
 - e) Describe the different issues regarding classification and prediction.
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