

Day : Thursday

Time : 02:00 PM-05:00 PM

Date : 22-12-2022

W-11058-2022

Max. Marks : 100

N.B.:

- 1) Attempt any **FOUR** questions from Section –I and any **TWO** questions from Section –II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SAME** answer book.

SECTION-I

- Q.1** Explain three tier architecture of a data warehouse. (15)
- Q.2** Describe market basket analysis with example. (15)
- Q.3** Explain different OLAP operations. (15)
- Q.4** Explain different data preprocessing techniques. (15)
- Q.5** Explain star schema and snowflake schema of data warehouse with suitable example. (15)
- Q.6** How a computerized decision support system helps in improving business? Explain in detail. (15)
- Q.7** Write short notes on any **THREE** of the following: (15)
- a) Data Mart
 - b) HOLAP Model
 - c) Prediction
 - d) Data Mining

SECTION-II

- Q.8** What are the major clustering methods? Explain K- Medoids methods in detail. (20)
- Q.9** The following data set represents the information about climate conditions to play or not to play golf. (20)

Outlook	Temperature (°C)	Humidity	Windy	Class
Sunny	75	70	True	Play
Sunny	80	90	True	No play
Sunny	85	85	False	No play
Sunny	72	95	False	No play
Sunny	69	70	False	Play
Overcast	72	90	True	Play
Overcast	83	78	False	Play
Overcast	64	65	True	Play
Rainy	81	75	False	Play
Rainy	71	80	True	No play
Rainy	65	70	True	No play
Rainy	75	80	False	Play
Rainy	68	80	False	Play

Design different set of rules that satisfy the conditions about to play golf.

- Q.10** a) What is Business Intelligence (BI)? Explain the importance of BI. (10)
- b) Describe BI framework and its process in detail. (10)