

**2011000305030051**  
**EXAMINATION FEBRUARY-MARCH 2024**  
**BACHELOR OF SCIENCE (FIFTH SEMESTER)**  
**(COMPUTER SCIENCE)**  
**INTRODUCTION TO DATAWAREHOUSING &**  
**DATAMINING LEVEL 3**

[Time: As Per Schedule]

[Max. Marks: 50]

**Instructions:**

**1. Fill up strictly the following details on your answer book**

- a. Name of the Examination : **BACHELOR OF SCIENCE (FIFTH SEMESTER)**
  - b. Name of the Subject : **(COMPUTER SCIENCE)**  
**INTRODUCTION TO DATAWAREHOUSING &**  
**DATAMINING LEVEL 3**
  - c. Subject Code No : **2011000305030051**
2. Sketch neat and labelled diagram wherever necessary.
  3. Figures to the right indicate full marks of the question.
  4. All questions are compulsory.

Seat No:

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Student's Signature

**Q.1 Answer the Following. (Any seven)**

**14**

- a) Define Data Warehouse.
- b) What is the use of data extraction layer?
- c) What do you mean by metadata?
- d) Define classification. Why it is essential?
- e) Define the term 'support'? Why it is important? Explain it.
- f) What do you mean by noisy data? How can we handle it?
- g) List out the characteristics of data warehouse.
- h) What is DMQL? Explain it.

**Q.2 Answer the following.**

- a) What is data mining? Explain KDD process in detail with its steps.
- b) Explain working strategy of Apriori algorithm in detail.

**06**

**06**

**OR**

- a) What is association rule mining? Explain by giving proper example. **06**
- b) What do you mean by classification? Explain it in detail. **06**

**Q.3 Answer the following.**

- a) Explain data warehouse architecture in detail. **06**
- b) Write a detailed note on application of data mining. **06**

**OR**

- a) How can we implement data warehouse? Explain in detail. **06**
- b) Explain data mining architecture in detail. **06**

**Q.4 Attempt the following. (Any three) **12****

- a) Write a note on concept hierarchy in data mining.
- b) Explain data generalization.
- c) Compare data warehouse and Operational database.
- d) Write a note on types of thresholds in rule mining.

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