

SET A

Exam Roll No: .....

**SCHOOL OF CHEMICAL AND LIFE SCIENCES  
JAMIA HAMDARD, NEW DELHI-110062**

**B.Sc. Semester II (FYUP), Semester Examination - May 2025**

**Paper Title: DATABASES & DATA MINING**

**Paper Code: BCH MDC 201**

**Time: 2 hours**

**Max Marks: 45**

*Write the Roll No. at the top immediately on receipt of this Question Paper. Attempt all Questions. All parts of the Question must be attempted in continuation. Start Answering each question on new page.*

**Section A**

**Question 1. All questions are compulsory in this section. [3 x 5 = 15 marks]**

- A. What do you mean by Database System? Explain purpose of database System.
- B. What are the key functionalities of data mining?
- C. Explain the concept of Rule-Based Classification. How does it work?

**Section B**

**Question 2. Answer ANY THREE of the following [3 x 10 = 30 marks]**

- A. With suitable diagram explain database architecture.
- B. Define a data warehouse and mention its key characteristics.
- C. What is prediction in machine learning? Describe the various types of prediction models and their uses.
- D. Differentiate between structured and unstructured data with example.

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