

Seat No.

OCT-NOV 2025 WINTER EXAMINATION**1154 B.Tech. CBCS****Sub. Name: Advanced Database Systems****Sub. Code: 67543/83858/83993****Day and Date: Friday ,05-12-2025****Total Marks: 70****Time: 02:30 PM To 05:00 PM**

Instructions: 1. All questions are compulsory
 2. Assume suitable data wherever necessary and mention it boldly
 3. Draw neat labelled diagrams wherever necessary

- Q1) Answer Any Two. [14]**
- Explain Partitioning Techniques used in I/O Parallelism. [7]
 - What is Two Phase Commit Protocol (2PC)? Explain how Failures get handle at the site of participating site. [7]
 - Explain Data Storage in Distributed Databases [7]
- Q2) Answer Any Two [14]**
- List out various SQL Functions and Explain any one in detail. [7]
 - What is Trigger? Explain with Syntax and Example. [7]
 - Explain Stored Procedure in detail with Syntax. Write Stored procedure to raise Salary of employees working at Pune location. (Assume Database and Attribute names). [7]
- Q3) Answer Any Two [14]**
- Explain Document and Graph Database in detail. [7]
 - Explain Creating, storing (One and Many) and Accessing data from MongoDB with Example [7]
 - Explain DBA's Technical Role in Detail [7]
- Q4) Answer Any Two [14]**
- Explain BI Architecture with neat figure. [7]
 - List out components of Data warehouse. Explain them in detail [7]

c. Explain Star Schema with Example.

[7]

Q5) Answer any Two.

[14]

a. List out Database Administration tools and explain in short.

[7]

b. List out Basic Data Mining Tasks and Explain any 2 with example.

[7]

c. Explain any 7 Issues associated with Data Mining

[7]

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -

This Question Paper may be distributed for following Subjects as common code.

सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

1] (101) Bachelor of Engineering (67543) Advanced Database System Part 4 SEM 7

2] (101) Bachelor of Engineering (83993) Advanced Database Systems Part 4 SEM 7

3] (1154) B.Tech. CBCS (83858) Advanced Database Systems Part 4 SEM 7