



Shirpur Education Society's  
**R. C. PATEL INSTITUTE OF TECHNOLOGY, SHIRPUR**  
An Autonomous Institute

[ Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere ]

आर. सी. पटेल इन्स्टिट्यूट ऑफ टेक्नॉलॉजी, शिरपूर  
(स्वायत्त महाविद्यालय)



## Final Test

**Subject: DBMS**

**Time: 03:30**

**Date: 2023-09-09**

**Marks: 75**

**Branch: Computer Engineering**

Q. No.	Question	Marks	Unit
1	Evaluate the security features of a DBMS and discuss how it protects against unauthorized access and data breaches.	10 M	C 1
2	Contrast the benefits of using a clustered index versus a non-clustered index in a DBMS.	5 M	C 3
3	Use SQL commands to create a new table and insert data into it in a DBMS.	10 M	C 3
4	Apply the principles of database design to create an ER diagram for an online shopping system.	10 M	C 1
5	Compare the advantages and disadvantages of using database replication versus database sharding in a distributed DBMS.	5 M	C 2
6	Assess the impact of denormalization on database performance and data redundancy in a DBMS.	10 M	C 5
7	Critique the performance of a specific database management system based on its response time and scalability.	10 M	C 3
8	What are the key factors to consider when choosing between a centralized and decentralized database architecture?	5 M	C 5
9	Assess the impact of denormalization on database performance and data redundancy in a DBMS.	10 M	C 4