

This document is a part of Main Course File

Document No.: CFM – 8



SARDAR VALLABHBHAI PATEL EDUCATION SOCIETY  
MANAGED

**N. G. PATEL POLYTECHNIC**

**INFORMATION TECHNOLOGY**

**FORMAT FOR ASSIGNMENTS**

**Course Name (With Code): DATABASE MANAGEMENT (4331603)**

**Semester / Year: Third/Second**

**Assignment Number: 5**

**Assignment CO Number: 4331603.e**

<b>Sr. No.</b>	<b>Questions related to Course Outcomes</b>
<b>Part – A</b>	<b>Questions carrying 3 Marks</b>
1	What is transaction ? explain in detail.
2	Short note on: Transaction states.
3	What are the different types of locks? Explain in brief.
<b>Part – B</b>	<b>Questions carrying 4 Marks</b>
1	Explain ACID property.
2	What is concurrency control? Explain various problems of concurrency control in brief.
3	Short note on: the dirty read problem, the inconsistent retrievals problem.
4	Short note on: degree of consistency.
<b>Part – C</b>	<b>Questions carrying 7 Marks</b>
1	Draw and explain transaction state transition diagram.
2	Explain serializability of transactions with example.
3	Short note on : 2PL
4	What is deadlock? Explain deadlock detection and prevention techniques.
5	Short note on : time-stamp method for concurrency control, optimistic methods for concurrency control.

**Prepared By: H. S. Mistry**

**Signature of I/c Head of Department**