

MAY 2013

**P/ID 77525/PMEJ/
PMBS1**

Time : Three hours

Maximum : 100 marks

PART A — (5 × 6 = 30 marks)

Answer any FIVE questions.

All questions carry equal marks.

1. Explain the various Normal forms.
2. Explain concurrency control mechanisms.
3. How will you effectively design a form?
4. Explain the architecture of DBMS.
5. What are the different types of database end users?
6. Explain the concept of transaction atomicity.
7. Explain query processing with examples.
8. Justify the need of normalization with example.

PART B — (5 × 10 = 50 marks)

Answer any FIVE questions.

All questions carry equal marks.

9. Discuss the components of an E-R diagram.
10. Write a detailed note on :
 - (a) Atomicity.
 - (b) Recovery.

11. How to save and retrieve data from database?
12. Explain the Debugging and Screen displays techniques available in dbase.
13. Explain the important properties of transaction that a DBMS must ensure to maintain database.
14. Discuss the issues to be considered while developing an ER diagram.
15. Bring out the advantages and limitations of normalization.
16. What are the various data models? Explain them.

PART C — (1 × 20 = 20 marks)

(Compulsory)

17. Explain the following using real life examples :
 - (a) 1-1 relationship
 - (b) 1-M relationship
 - (c) M-1 relationship
 - (d) M-M relationship.
-