

Subject : Data Base Management Theory

Day : Friday
Date : 09/12/2016



Time : 02.00 P.M. TO 05.00 P.M.
Max Marks : 80 Total Pages : 1

N.B.

- 1) Attempt any **FIVE** questions from Section – I.
- 2) Attempt any **TWO** questions from Section – II.
- 3) Figures to the right indicate **FULL** marks.
- 4) Answers to both the sections should be written in **SAME** answer book.

SECTION – I

- Q.1** Explain advantages of DBMS over traditional file processing. (10)
- Q.2** What is Data Independence? Explain the types of data independence. (10)
- Q.3** What is Entity Relation Diagram? Define the term attribute and explain its various types. (10)
- Q.4** What is Distributed Database? Explain its advantages and disadvantages. (10)
- Q.5** Define transaction. Explain ACID properties of transaction. (10)
- Q.6** What is the recovery subsystem of database? Explain log based method for database recovery. (10)
- Q.7** Write short notes on (Any 2): (10)
- a) Check points
 - b) Cardinality Ratios
 - c) Database security

SECTION – II

- Q.8** Draw an Entity Relation Diagram for Hostel Management System. (15)
- Q.9** What is Normalization? Explain 1 NF, 2NF and 3NF with an example. (15)
- Q.10** Explain the following with examples: (15)
- a) SELECT Statement
 - b) Aggregate functions
 - c) Views

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