

BS/2051
DATABASE MANAGEMENT SYSTEM–BAP-203
(Semester–IV)

Time : Three Hours]

[Maximum Marks : 45

Note : Attempt *two* questions each from the sections A and B of the question paper and the entire section C.

SECTION–A

- I. What are the advantages of database management system over traditional file processing system? Explain. 9
- II. Define data independence. What is the difference between logical and physical data independence? Explain. 9
- III. Discuss in detail the relational data model. 9
- IV. Define ER model. Which symbols are used in ER model? Explain giving example. 9

SECTION–B

- V. (a) Define full functional dependency. 2
- (b) Define decomposition. 2
- (c) What are the problems of bad database design? Explain. 5

- VI. Define concurrency. What are the different methods of handling concurrency? Explain. 9
- VII. Define integrity. What are the different types of integrity constraints? Explain giving examples. 9
- VIII. Write the procedure of creating and using macros in MS Access. 9

SECTION-C

- IX. All questions are compulsory.
- (a) Distinguish between Schema and instance. 1
- (b) What do you mean by database system environment? 1
- (c) What are the different classes of DBMS? 1
- (d) What are the physical data models? 1
- (e) How ER diagrams are converted to tables? 1
- (f) How weak entity set can be converted to strong entity set? 1
- (g) What do you mean by union compatible relations? 1
- (h) Write the procedure of setting relationships in MSAccess. 1
- (i) What is lookup reference in MSAccess? 1
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