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Total No. of Questions: 18

B.Tech (IT) (Sem.-5)

DATABASE MANAGEMENT SYSTEMS

Subject Code: BTIT-502-18 M.Code: 78257

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Answer briefly:

- 1) What is data independence? What are its types?
- Write various data manipulation operations that can be performed data.
- Differentiate between char and varchar2 data types in oracle.
- 4) What is Transitive Dependency?
- 5) What is difference between primary index and secondary index?
- 6) What is a checkpoint in DBMS?
- 7) What is a transaction?
- 8) Why security is required in DBMS?
- 9) What are Web databases?
- 10) What are advantages of OODBMS?

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SECTION-B

- 11) What is ER Diagram? What are the symbols used in it? Design and Draw an ER diagram for a banking system.
- 12) What is the difference between relational algebra and relational calculus?
- 13) Discuss the Shadow Paging Recovery Technique. Under what circumstances does it not require a log?
- 14) How can you manage access control to different data in database?
- Explain distributed database with its advantages.

SECTION-C

- 16) What is normalization? Why do we need to normalize our database? Explain various normal forms by taking proper example.
- Atechnique. What is Hashing? How Hash Codes Work? Explain with Examples.
- Discuss various concurrency control technique.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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