Code No: 154AM **R18**

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech II Year II Semester Examinations, November/December - 2020
DATABASE MANAGEMENT SYSTEMS
(Common to CSE, IT)

Time: 2 Hours **Max. Marks: 75**

Answer any Five Questions
All Questions Carry Equal Marks
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1.a) What is DBMS? List four significant difference between file processing system and a DBMS?
b) What is E-R model? Draw an E-R Diagram for any Banking enterprise system. [6+9]

2.a) Explain about outer join operation in relational algebra.
b) Explain about domain relational calculus with example. [7+8]

3.a) Explain the following Operators in SQL with examples
i) SOME ii) IN iii) EXCEPT iv) EXISTS
b) Explain various DML functions in SQL with examples. [8+7]

4. Explain shadow paging recovery scheme for recovering the data base? [15]

5. Explain deletion and insertion operations in linear hashing with examples. [15]

6.a) Explain about various database users and administrators in DBMS.
b) Draw an ER-Diagram for Week entity set and Strong entity set with example. [7+8]

7.a) Explain modification of the database operations in relational algebra with example.
b) Explain about domain relational calculus with example. [8+7]

8. What is normalization? Explain 4NF and 5NF Normal forms with example. [15]

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