Code No: 154AM

R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester Examinations, August/September - 2022 DATABASE MANAGEMENT SYSTEMS

(Common to CSE, IT, ECM, CSBS, CSIT, ITE, CSE(AIML), CSE(DS))

Time: 3 Hours Max.Marks:75

Answer any five questions All questions carry equal marks

- 1.a) Draw and explain the structure of a DBMS. Explain generalization and specialization concepts with an example. b) [7+8]2.a) What is ER model? Explain the basic symbols used for entities, attributes and relationships. b) What is an attribute? Explain various types of attributes with examples. [9+6] 3.a) Explain integrity constraints over relations. How to alter, destroy tables and views? Give example queries. b) [7+8]4.a) Give a brief note on views. Explain fundamental operations in relational algebra with examples. b) [8+7]5. What is meant by normalization? Explain in detail various normal forms with an example. [15] 6. Explain the following with any example queries. a) Set operations.

How to test scrializability of a schedule? Explain with an example.

Explain log-based recovery protocol. b)

b) Aggregate operations.

7.a)

[8+7]

[7+8]

- What is the purpose of indexing in DBMS? Explain secondary indexing with suitable 8.a) diagram.
 - What is meant by file organization? Explain in brief about Indexed Sequential Access b) Method (ISAM). [8+7]

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