Code No: 843AA JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA II Semester Examinations, April/May - 2019 DATABASE MANAGEMENT SYSTEMS

Time: 3hrs

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

| | | 5 × 5 Marks = 25 |
|----------|---|------------------|
| 1.a) | Discuss about different types of database users. | [5] |
| b) | When can we use group by clause? Explain with an example. | [5] |
| c) | What is functional dependency? Explain with an example. | [5] |
| d) e) | What is a transaction? What are the properties of transaction? What are sparse and dense indexes? | [5] [5] |
| 0) | | [2] |
| | PART - B | |
| 2 -) | | 5 × 10 Marks =50 |
| 2.a) | What is the role of storage manager? Explain. | [5+5] |
| b) | Explain about database system architecture. | [5+5] |
| 3. | Discuss about various data models. | [10] |
| | | L - J |
| 4. | Discuss about integrity constraints over relations. | [10] |
| | OR | |
| 5.a) | Discuss about destroying and altering tables and views. | [6.6] |
| b) | Explain in detail about nested queries. | [5+5] |
| 6. | Discuss about different types of relational calculus in detail. | [10] |
| 0. | OR | |
| 7. | Explain 3 NF and BCNF with examples. | [10] |
| | | |
| 8. | Explain timestamp based protocols. | [10] |
| 0 | OR | [10] |
| 9. | Explain ARIES recovery system. | [10] |
| 10.a) | Explain ISAM in detail. | |
| b) | Explain about cluster index. | [5+5] |
| , | OR | |
| 11. | Explain about different file organizations. | [10] |
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Max.Marks:75