

III B. Tech I Semester Regular/Supplementary Examinations, October/November - 2017

DATABASE MANAGEMENT SYSTEMS

(Common to Computer Science Engineering and Information Technology)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (Part-A and Part-B)
 2. Answering the question in **Part-A** is compulsory
 3. Answer any **THREE** Questions from **Part-B**

PART - A

- | | | | |
|---|----|--|------|
| 1 | a) | Define Database Management Systems. | [4M] |
| | b) | Why we need integrity constraints? | [3M] |
| | c) | What are the major components used in E-R diagram design ? | [4M] |
| | d) | Why do we need normalization? | [3M] |
| | e) | Illustrate transaction properties. | [4M] |
| | f) | Differentiate volatile and non volatile storage. | [4M] |

PART - B

- | | | | |
|---|----|--|------|
| 2 | a) | What is Data Base Administrator? Discuss the functions of DBA. | [8M] |
| | b) | Explain DBMS applications. | [8M] |
| 3 | a) | How do we represent null values? Discuss the importance of handling null values. | [8M] |
| | b) | Discuss in detail the operators SELECT, PROJECT and UNION with suitable examples. | [8M] |
| 4 | a) | Explain about the following clauses with example queries.
(i) Group by
(ii) Order by
(iii) Aggregation functions. | [8M] |
| | b) | How to maintain class hierarchies in ER-Diagrams? Explain with employee database. | [8M] |
| 5 | a) | Explain the advantages of decomposition? Discuss the problems faced in decomposition. | [8M] |
| | b) | Explain the functional dependency with multi-valued dependencies with example. | [8M] |
| 6 | a) | Discuss about conflict Serializability with an example. | [8M] |
| | b) | What is 2-phase locking protocol? Compare 2PL with Strict 2PL protocol. | [8M] |
| 7 | a) | Write short notes on the following topics.
(i) Optical disk.
(ii) Magnetic tapes. | [8M] |
| | b) | Write about indexed sequential files with advantages and disadvantages. | [8M] |

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