

## 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.<br>(i) Group by<br>(ii) Order by<br>(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.<br>(i) Optical disk.<br>(ii) Magnetic tapes.                                    | [8M] |
|   | b) | Write about indexed sequential files with advantages and disadvantages.                                                    | [8M] |

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# Mscit Question Paper 21

**Thirumalaisamy P.**  
**Velavancorresponding**

## **Mscit Question Paper 21:**

## Whispering the Techniques of Language: An Psychological Quest through **Mscit Question Paper 21**

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