**MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)**

**IIB.Tech– IISem (MR 18-2018-19 Admitted Students)**

**I Mid Examination Subjective Question Bank**

**Subject: Database Management Systems Branch: Common to CSE & IT**

**Subject Code: 80512**

**Instructions:**

**1. All the questions carry equal marks**

**2. Solve all the questions**

|  |  |  |  |
| --- | --- | --- | --- |
| **Q.No.** | **Question** | **Bloom’s Taxonomy Level** | **CO** |
| **Module I** |
|  |
| 1. | What is a data model? Explain in detail about different data models used in database management systems? | Understanding | 1 |
| **OR** |
| 2. | Explain advantages and disadvantages of DBMS over File System | Understanding | 1 |
|  |
| 3. | Explain different types of database users and write the functions of DBA? | Understanding | 1 |
| **OR** |
| 4. | Classify various features of the ER-Models? How to represent the strong entity and week entity set through ER-diagrams | Understanding | 1 |
|  |  |  |  |
| 5. | Explain the concept of Specialization, generalization and aggregation in E\_R diagrams. Give one example for each one of them. |  |  |
| **OR** |
| 6. | What is view of data?Explain the three levels of data independence. | Applying | 1 |
|  |
| 7. | Explain the structure of RDBMSwith a neat sketch? | Understanding | 1 |
| **OR** |
| 8. | What are the Integrity constraints? Explain in detail different types of integrity constraints over relations? | Applying | 1 |
|  |  |  |  |
| **Module II** |
| 1. | Discuss aboutdifferent operations in relational algebra with example. | Understanding | 2 |
| **OR** |
| 2. | Identify various operations in relational calculus in creating SQL query with suitable example. | Understanding | 2 |
|  |
| 3. | Discussabout Nested queries with an example. | Understanding | 2 |
| **OR** |
| 4. | Discuss about different types of aggregate operators in SQL with examples? | Understanding | 2 |
|  |
| 5. | Classify different join operations (Relational Algebra& SQL) and explain with example. | Applying | 2 |
| **OR** |
| 6. | Explain Active Databases and designing Active Databases with suitable example. | Applying | 2 |
|  |
| 7. | List various set operations and explain with suitable examples.+ | Creating | 2 |
| **OR** |
| 8. | Discuss about trigger with syntax and example. | Creating | 2 |
| **Module III** |
| 1. | Summarize key terms and Rules for functional dependency. | Understanding | 3 |
| **OR** |
| 2. | Demonstratefunctional dependencies. How are primary keys related to FD’s? | Understanding | 3 |
|  |
| 3. | Explain trivial and non-trivial dependencies. | Understanding | 3 |
| **OR** |
| 4. | What is decomposition and how does it address redundancy? What problem may be caused by the use of decompositions? | Understanding | 3 |

**Signature of the Faculty Signature of the HoD**