**Answer the following questions**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Q. No** | | **Questions** | **Unit** | **Marks** | **CO** | **Cognitive Level** |
| 1 | a) | Define DBMS. | 1 | 2 | I | Remember |
| b) | Define Foreign key. | 2 | 2 | IV | Remember |
| c) | Define Weak entity set. | 3 | 2 | II | Remember |
| **UNIT-1** | | | | | | |
| 2 | a) | Explain overall structure of Database Management Systems. | | 4 | I | Understand |
| b) | Describe the Functions of a DBA. | | 4 | I | Understand |
| **OR** | | | | | | |
| 3 | a) | Explain the advantages of using a DBMS over File Processing System. | | 4 | I | Understand |
| b) | Explain the applications of Database Systems. | | 4 | I | Understand |
| **UNIT-2** | | | | | | |
| 4 | a) | Explain in detail about nested Queries with examples. | | 4 | IV | Apply |
| b) | Illustrate Comparison operator with examples. | | 4 | IV | Apply |
| **OR** | | | | | | |
| 5 | Implement Insurance Database Using CREATE statements by considering Primary key and Foreign key Constraints.  **person (driver id, name, address)**  **car (license, model, year)**  **accident (report number, date, location)**  **owns (driver id, license)**  **participated (report number, license, driver id, damage amount)** | | | 8 | IV | Apply |
| **UNIT-3** | | | | | | |
| 6 | Draw an E-R diagram for student information system and identify the derived and composite attributes, the strong and weak entity sets and relationships | | | 8 | II | Apply |
| **OR** | | | | | | |
| 7 | a) | Explain about attributes and entity sets. | | 4 | II | Understand |
| b) | Describe the notational conventions used in ER model. | | 4 | II | Understand |

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Signature of the Faculty:

**Answer the following questions**

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| --- | --- | --- | --- | --- | --- | --- |
| **Q. No** | | **Questions** | **Unit** | **Marks** | **CO** | **Cognitive Level** |
| 1 | a) | Classify Data Models. | 1 | 2 | I | Remember |
| b) | Classify Aggregate Functions in SQL. | 2 | 2 | IV | Remember |
| c) | Classify Attributes with examples. | 3 | 2 | II | Remember |
| **UNIT-1** | | | | | | |
| 2 | a) | What are Database languages and explain? | | 4 | I | Understand |
| b) | Describe Database users | | 4 | I | Understand |
| **OR** | | | | | | |
| 3 | a) | Explain the architecture of a Database with a neat Diagram. | | 4 | I | Understand |
| b) | Explain Data Abstraction. | | 4 | I | Understand |
| **UNIT-2** | | | | | | |
| 4 | a) | Explain various built-in aggregate functions in SQL with examples. | | 4 | IV | Apply |
| b) | Discuss about data manipulation commands in SQL with syntax and examples. | | 4 | IV | Apply |
| **OR** | | | | | | |
| 5 | Implement Banking Database Using CREATE statements by considering Primary key and Foreign key Constraints.  **branch(branch name, branch city, assets)**  **customer (customer name, customer street, customer city)**  **loan (loan number, branch name, amount)**  **borrower (customer name, loan number)**  **account (account number, branch name, balance )**  **depositor (customer name, account number)** | | | 8 | IV | Apply |
| **UNIT-3** | | | | | | |
| 6 | Draw E-R diagram for university Enterprise. | | | 8 | II | Apply |
| **OR** | | | | | | |
| 7 | a) | Explain various cardinalities that are supported by the crow’s foot notation. | | 4 | II | Understand |
| b) | Explain in detail about entity, entity set, relationships and relationships sets. | | 4 | II | Understand |

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