**B.Tech II Year II SEM(R-22)MID-II Examinations, June-2024**

**Branch: CSE-IOT Subject Name :DBMS**

**Academic Year :2023-2024 Max Marks:30Marks**

**Date of Exam: 26/06/2024 Time of Exam: 09.45AM to 11.45PM**

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| **SET - 1** |

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|  |  |  |  |  | **A** |  |  |  |  |

**Name: --------------------------------- Hall Ticket No.**

**PART - A**

**Answer ALL the Questions (10 x 1 = 10 Marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Q.No** | | **Fill in the Blank/ Multiple Choice/ Match the following** | **Outcomes** | | **BTL** | **Marks** |
| **CO** | **PO** |
| **1** | a) | The method of access which uses key transformation is known as (A) direct. (B) hash (C) random. (D) sequential | **1** | **1** | Remember | 1M |
| b) | The file organization that provides very fast access to any arbitrary record of a file is (A) Orderedfile (B) Unordered file (C) Hashed file (D) B-tree | **2** | **2** | Remember | 1M |
| c) | **Explain the concept of acid properties in the context of database transactions.** | **1** | **3** | Understand | 1M |
| d) | **What is a timestamp-based concurrency control scheme, and how does it help maintain data consistency?** | **1** | **2** | Remember | 1M |
| e) | What are the different types of file organization | **2** | **1** | Understand | 1M |
| f) | What is the log-based concurrency control? | **1** | **3** | Understand | 1M |
| g) | What is the deadlock ? | **1** | **1** | Remember | 1M |
| h) | What is conflict serializability? | **2** | **2** | Understand | 1M |
| i) | What is timestamp based concurrency control protocol? | **1** | **3** | Remember | 1M |
| j) | What are the database recovery techniques? | **2** | **5** | Remember | 1M |

**PART – B**

**Answer any FOUR of the following Questions (4 x 5 =20 Marks)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Q.No** | **Question** | **Outcomes** | | **BTL** | **Marks** |
| **CO** | **PO** |
| **2** | a)What is normalization? Specify the types in detail manner | **1** | **1** | Understand | 2.5M |
| b)Describe the lossless decompostion | **2** | **1** | Remember | 2.5M |
| **3** | a) Consider the relation R(A,B,C,D,E) and FD’sA>BC C->A D->E F->AE->D Is the Decomposition R into R1(A,C,D),R2(B,C,D) and R3(E,F,D) lossless? | **1** | **2** | Apply | 2.5M |
| b) Blog out on 3NF and 4NF with examples | **1** | **3** | Remember | 2.5M |
| **4** | What is transaction? Explain the states and properties of transaction? | **2** | **1** | Understand | 5M |
| **5** | a) Explain the time stamp based protocols | **2** | **1** | Remember | 2.5M |
| b) Explain ACID properties of Transaction? | **2** | **2** | Understand | 2.5M |
| **6** | a) Describe the shadow paging recovery technique | **1** | **3** | Remember | 2.5M |
| b) Discuss various file organizations | **2** | **5** | Understand | 2.5M |
| **7** | a) Explain the following a. Cluster indexes b. Primary and secondary indexes | **2** | **2** | Construct | 2.5M |
| b) Compare the Ordered Indexing with Hashing | **2** | **3** | Remember | 2.5M |

\*\*\*\*ALL THE BEST\*\*\*\*

**B.Tech II Year II SEM(R-22)MID-I Examinations, APRIL-2024**

**Branch: XXXX Subject Name :DBMS**

**Academic Year : 2023-2024 Max Marks: 30Marks**

**Date of Exam: 04/04/2024 Time of Exam: 09.45AM to 11.45PM**

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| **SET - 2** |

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|  |  |  |  |  | **A** |  |  |  |  |

**Name: --------------------------------- Hall Ticket No.**

**PART - A**

**Answer ALL the Questions (10 x 1 = 10 Marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Q.No** | | **Fill in the Blank/ Multiple Choice/ Match the following** | **Outcomes** | | **BTL** | **Marks** |
| **CO** | **PO** |
| **1** | a) |  | **CO** | **PO** |  | 1M |
| b) |  | **1** | **1** | Understand | 1M |
| c) |  | **2** | **2** | Create | 1M |
| d) |  | **1** | **3** | Apply | 1M |
| e) |  | **1** | **2** | Remember | 1M |
| f) |  | **2** | **1** | Understand | 1M |
| g) |  | **1** | **3** | Understand | 1M |
| h) |  | **1** | **1** | Apply | 1M |
| i) |  | **2** | **2** | Understand | 1M |
| j) |  | **1** | **3** | Apply | 1M |

**PART – B**

**Answer any FOUR of the following Questions (4 x 5 =20 Marks)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Q.No** | **Question** | **Outcomes** | | **BTL** | **Marks** |
| **CO** | **CO** |
| **2** |  | **1** | **1** | Understand | 2.5M |
|  | **2** | **1** | Create | 2.5M |
| **3** |  | **1** | **2** | Apply | 2.5M |
|  | **1** | **3** | Remember | 2.5M |
| **4** |  | **2** | **1** | Understand | 2.5M |
|  | **1** | **1** | Understand | 2.5M |
| **5** |  | **2** | **1** | Apply | 2.5M |
|  | **2** | **2** | Understand | 2.5M |
| **6** |  | **1** | **3** | Apply | 5M |
| **7** |  | **2** | **5** | Understand | 2.5M |
|  | **2** | **2** | Construct | 2.5M |

\*\*\*\*ALL THE BEST\*\*\*\*

**B. Tech II Year II SEM(R-22)MID-I Examination, April-2024**

**Branch:XXXX Subject Name: DBMS**

**Academic Year: 2023-2024 Max Marks:30Marks**

**Date of Exam:08/04/2024 Time of Exam: 09:45AM to 11.45AM**

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| **SET -3** |

|  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  | **A** |  |  |  |  |

**Name: --------------------------------- Hall Ticket No.**

**PART - A**

**Answer ALL the Questions (10 x 1 = 10 Marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Q. No** | | **Fill in the Blank/ Multiple Choice/ Match the following** | **Outcomes** | | **BTL** | **Marks** |
| **CO** | **PO** |
| **1** | a) |  | CO1 | PO1 | Understand | 1M |
| b) |  | CO1 | PO1 | Analysis | 1M |
| c) |  | CO1 | PO1 | Analyze | 1M |
| d) |  | CO1 | PO1 | Understand | 1M |
| e) |  | C02 | PO2 | Knowledge | 1M |
| f) |  | C02 | PO2 | Knowledge | 1M |
| g) |  | C02 | PO2 | Apply | 1M |
| h) |  | C02 | PO2 | Apply | 1M |
| i) |  | CO3 | PO3 | Analysis | 1M |
| j) |  | CO3 | PO3 | Analysis | 1M |

**PART – B**

**Answer any FOUR of the following Questions (4 x 5 =20 Marks)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Q. No** | **Question** | **Outcomes** | | **BTL** | **Marks** |
| **CO** | **PO** |
| **2** |  | CO1 | PO1 | Create | 2.5M |
|  | CO1 | PO1 | Understand | 2.5M |
| **3** |  | CO1 | PO2 | Evaluating | 5M |
| **4** |  | CO1 | PO2 | Analyze | 2.5M |
|  | CO1 | PO3 | Analyzing | 2.5M |
| **5** |  | CO2 | PO4 | Understand | 5M |
| **6** |  | CO2 | PO3 | Analyze | 2.5M |
|  | CO2 | PO1 | Apply | 2.5M |
| **7** |  | CO3 | PO4 | Evaluate | 5M |

\*\*\*\*ALL THE BEST\*\*\*\*