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BTECH
(SEM VIII) THEORY EXAMINATION 2021-22
DATA WAREHOUSING & DATA MINING

Time: 3 Hours**Total Marks: 100****Note:** Attempt all Sections. If you require any missing data, then choose suitably.**SECTION A****1. Attempt all questions in brief.****2*10 = 20**

| Q.no | Questions | Marks | CO |
|------|--|-------|----|
| (a) | What do you mean by Data Warehousing? | 2 | 1 |
| (b) | Briefly discuss about the Data Warehousing Components. | 2 | 1 |
| (c) | What do you mean by Data Warehouse Process? | 2 | 2 |
| (d) | What do you understand by Warehousing Strategy? | 2 | 2 |
| (e) | Discuss the concept of Data Cleaning. | 2 | 3 |
| (f) | What are the needs of Data Mining? | 2 | 3 |
| (g) | Discuss about the Classification. | 2 | 4 |
| (h) | Discuss about the Clustering. | 2 | 4 |
| (i) | Write a short note on Data Visualization. | 2 | 5 |
| (j) | Write a short note on Aggregation. | 2 | 5 |

SECTION B**2. Attempt any three of the following:****10*3 = 30**

| Q.no | Questions | Marks | CO |
|------|--|-------|----|
| (a) | Explain about the OLAP function, OLAP Tools and OLAP Servers. | 10 | 5 |
| (b) | Describe in detail about the Hardware and Operating Systems for Data Warehousing. | 10 | 2 |
| (c) | Describe in detail about any two of the following. (i) Binning (ii) Clustering (iii) Regression | 10 | 3 |
| (d) | Discuss about the Statistical measures in large Databases in Classification. | 10 | 4 |
| (e) | Discuss in detail about the Building a Data Warehouse. | 10 | 1 |

SECTION C**3. Attempt any one part of the following:****10*1 = 10**

| Q.no | Questions | Marks | CO |
|------|---|-------|----|
| (a) | Define Tuning and Testing of Data Warehouse under the Data Visualization. | 10 | 5 |
| (b) | Describe about the Parallel Processors and Cluster Systems under the Data Warehouse Process Technology. | 10 | 2 |



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4. Attempt any *one* part of the following: 10 *1 = 10

| Q.no | Questions | Marks | CO |
|------|--|-------|----|
| (a) | Discuss about the concept of Mapping the Data Warehouse to a Multiprocessor Architecture. | 10 | 1 |
| (b) | What do you understand by Data Cube Aggregation and Dimensionality reduction in Data Mining? | 10 | 3 |

5. Attempt any *one* part of the following: 10*1 = 10

| Q.no | Questions | Marks | CO |
|------|--|-------|----|
| (a) | Compare and contrast between Distance-Based Algorithms and Decision Tree-Based Algorithms. | 10 | 4 |
| (b) | Discuss about the Web Mining, Spatial Mining and Temporal Mining under the Data Visualization. | 10 | 5 |

6. Attempt any *one* part of the following: 10*1 = 10

| Q.no | Questions | Marks | CO |
|------|---|-------|----|
| (a) | Discuss about the Warehousing Software and Warehouse Schema Design in Data Warehouse Process Technology. | 10 | 2 |
| (b) | Describe about the Difference between Database System and Data Warehouse. What do you mean by Multi-Dimensional Data Model? | 10 | 1 |

7. Attempt any *one* part of the following: 10*1 = 10

| Q.no | Questions | Marks | CO |
|------|--|-------|----|
| (a) | Describe in detail about any two of the following. (i) Numerosity Reduction (ii) Concept hierarchy generation (iii) Decision Tree | 10 | 3 |
| (b) | What do you understand by Hierarchical and Partitioned Algorithms under the Clustering in Data Mining and Warehousing? | 10 | 4 |