Computer Science & Engineering AI & ML

BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)

B. Tech. Sem - III CS&E-A&M : WINTER : 2024

SUBJECT: DATABASE MANAGEMENT SYSTEMS

Day : Wednesday
Date : 11/12/2024

W-23939-2024

Time : 10:00 AM-01:00 PM
Max. Marks : 60

N.B.:

1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Draw neat labelled diagrams **WHEREVER** necessary.

Q.1 What are the advantages of using DBMS system over file processing system? **(10)**

OR

Q.1 Describe the concept of Data Models and Role of DBA. **(10)**

Q.2 Explain E- R Model with example. Write and explain components of E-R Model. **(10)**

OR

Q.2 Describe the concept of Subclasses and Inheritance in details. **(10)**

Q.3 What is DML? What are the different operations performed using DML. Explain with suitable example. **(10)**

OR

Q.3 Explain the concept of Cursors and Triggers with suitable example. **(10)**

Q.4 What is Normalization? Explain 1NF, 2NF, 3NF with example. **(10)**

OR

Q.4 Explain Concurrency Control with suitable example. **(10)**

Q.5 Explain any 4 types of Relational operations with example. **(10)**

OR

Q.5 Explain Codd's rule. **(10)**

Q.6 Draw and explain Client –Server architecture. **(10)**

OR

Q.6 Explain different types of Distributed Database System. **(10)**

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