



R20 Regulation

Subject code:3E6HA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech VI Semester Regular Examinations, June/July 2023

ADVANCED DATABASES

(CSE(DS))

Maximum Marks: 70

Date:27.06.2023 Duration: 3 hours

- Note:
- 1.This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 Define I/O Parallelism.
- 2 Define Multi core Processor.
- 3 Discuss Inheritance in SQL.
- 4 List the advantages of Object Relational Model.
- 5 Define Crawling.
- 6 What are the Parameters used for Measuring Retrieval Effectiveness.
- 7 Define Spatial Data mining.
- 8 Define Transactional Workflow.
- 9 Explain about Granting in DBMS.
- 10 List the control measures that are used to provide security of data in databases.

Part-B

Answer All the following questions.

(10MX 5=50Marks)

- 11 A. Define Query Optimization. [3M]
B. Explain about various query optimization strategies. [7M]
OR
- 12 Explain about Database System Architecture? [10M]
- 13 Discuss in detail about elements of an Object oriented data model. [10M]
OR
- 14 Explain in detail about XML Schema Definition. [10M]
- 15 Explain about the Relevance using Hyperlink in detail. [10M]
OR
- 16 A. Explain about ranking of Pages in Information Retrieval. [5M]
B. Difference between Crawling and Indexing in web. [5M]
- 17 Define Geographic data. Discuss about the design of databases. [10M]
OR
- 18 Explain about Object recognition in Images in Multi Media Data bases. [10M]
- 19 A. Explain the risks associated with SQL Injection. [5M]
B. Define Digital Signature. Explain how Digital Signature technique is used in encryption of data. [5M]
OR
- 20 Explain in detail about the challenges to maintain Database Security. [10M]