BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)
B.Tech.Sem - VI IT :SUMMER- 2022
SUBJECT : ADVANCED DATABASE MANAGEMENT SYSTEMS

Day : Wednesday   Time : 02:30 PM-05:30 PM
Date : 15-06-2022   **S-13419-2022**   Max. Marks : 60

N.B.:
1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Assume suitable data, if necessary.
4) Use of non-programmable **CALCULATOR** is allowed.

Q.1 What are "Complex Objects"? Compare structured and unstructured **(10)** complex objects.

OR

Q.1 State and explain the features of object definition language and object query **(10)** language.

Q.2 What are distributed databases? Elaborate the needs for building distributed **(10)** database systems.

OR

Q.2 State and explain the different forms of transparency in distributed database **(10)** systems.

Q.3 How are query costs measured? Explain the parameters of query evaluation. **(10)**

OR

Q.3 Why is transforming relational expressions important? State any five rules **(10)** used in these transformations.

Q.4 What is OLTP? Discuss star and snowflake schema with appropriate **(10)** examples.

OR

Q.4 What are the design considerations of a data warehouse? Enlist the **(10)** applications of data warehouse in detail.

Q.5 Enlist and explain the association rules related to data mining with suitable **(10)** examples.

OR

Q.5 Elaborate in detail the working of web search engine with any real time **(10)** example.

Q.6 Explain the term "transaction processing monitors" with appropriate **(10)** example.

OR

Q.6 What are personal databases? How are they different from commercial **(10)** databases? Why are mobile databases becoming an emerging trend in databases?

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