

B.Tech. SEM -VI Info. Tech. 2014 Course (CBCS) : SUMMER - 2019
SUBJECT : ADVANCED DATABASE MANAGEMENT SYSTEMS

Day : Friday

Time : 02.30 PM TO 05.30 PM

Date : 24/05/2019

S-2019-2749

Max. marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.
- 4) Assume suitable data, if necessary.

Q. 1 What is ODMG? Explain the object model of ODMG in detail. (10)

OR

Elaborate the process of mapping and conversion of EER schema to an object database schema. (10)

Q. 2 What is I/O parallelism? How does partitioning help parallelism? Explain skew with reference to I/O parallelism. (10)

OR

List and explain prominent architectural models for parallel databases. What are the performance evaluation parameters used for the same. (10)

Q. 3 State the need for transforming relational expressions. State any 8 of the equivalence rules used in these transformations. (10)

OR

How are parameters of query evaluation measured? Explain in detail. (10)

Q. 4 Explain data modeling with reference to data warehouse environment. Explain the types of data modeling used in OLAP. (10)

OR

State and explain the various operations and issues associated with data marts. (10)

Q. 5 What are association rules? How are they formulated and used? (10)

OR

What is a data warehouse? List and explain components of data warehouse. (10)

Q. 6 What is a TP-monitor? Draw and explain architecture of a TP-monitor. (10)

OR

What are mobile databases? How are they formulated and used? (10)

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