

B.Tech. SEM -VI Info. Tech. 2014 Course (CBCS) : WINTER - 2018

SUBJECT : ADVANCED DATABASE MANAGEMENT SYSTEMS

Day : Wednesday
Date : 14/11/2018

W-2018-2484

Time : 10.00 AM TO 01.00 PM
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 object behavior? How to specify the behavior of an object? (10)

OR

Which are the different mechanisms to mark an object as persistent? Explain them in detail. (10)

Q. 2 Explain Intra-query parallelism in detail. How they are achieved? (10)

OR

What are distributed database systems? Elaborate the reasons for building distributed database systems. (10)

Q. 3 What are the statistics and approaches used to estimate results of expressions when optimizing a query? Explain in detail. (10)

OR

Write short notes on: (10)

- a) Materialized views
- b) Semantic query
- c) Dynamic query evaluation

Q. 4 What is a data mart? State the importance and types of data mart. (10)

OR

List and explain the design considerations for building a data warehouse. (10)

Q. 5 State the classification problem in data mining. How classifiers are built? (10)

OR

Q. 5 What are web search engines? Explain their working in detail. (10)

Q. 6 What is performance tuning of a system? Which aspects are considered for performance tuning of a system? How are they used? (10)

OR

Why are spatial and geographical data needed to be stored differently than other data? How is geographic database represented? (10)

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