M. TECH. –I (COMPUTER ENGINEERING)   (CBCS – 2015 COURSE) : SUMMER - 2018
SUBJECT : ADVANCED DATABASE MANAGEMENT SYSTEM

Day :	**Monday**	**S-2018-2970**	Time : **11.00 AM TO 02.00 PM**
Date :	**28/05/2018**		Max. Marks : 60

N.B.:
   1)   All questions are **COMPULSORY**.
   2)   Figures to the right indicate **FULL** marks.
   3)   Answers to both the sections should be written in **SEPARATE** answer books.

SECTION – I

Q.1   Discuss in brief the Inter Query and Intra Query parallelism.   **[10]**

OR

What is the difference between Homogenous and Heterogeneous Distributed DBMS? Discuss the various issues in implementation of Distributed Databases.

Q.2   Explain in details the architecture of Web Search Engine.   **[10]**

OR

What are Inverted Indexes? Discuss the mechanism for building Inverted Indexes.

Q.3   What is OLAP? Discuss various implementation techniques of OLAP.   **[10]**

OR

Discuss in detail the process of Knowledge Discovery in Database (KDD). Explain in detail the Apriori algorithm using example.

SECTION – II

Q.4   How inheritance works in Object Database System? Compare RDBMS, OODBMS and ORDBMS.   **[10]**

OR

What is XML? Explain the Querying and Transformation of XML data.

Q.5   What is Spatial Database? Explain in detail the architecture of Spatial DBMS.   **[10]**

OR

What is Grid File? Discuss its role in Spatial Data Management System.

Q.6   Explain and contrast the significance of Temporal and Sequence Database.   **[10]**

OR

What is Transactional Workflow? Explain workflow specification and workflow execution in this regard.

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