

M. Tech. –I (Computer Engineering) (CBCS – 2015 Course) :

SUMMER - 2019

SUBJECT : ADVANCED DATABASE MANAGEMENT SYSTEM

Day : Thursday  
Date : 16/05/2019

S-2019-3373

Time : 11.00 AM TO 02.00 PM  
Max. Marks : 60

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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 '**SAME**' answer books.
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**SECTION – I**

**Q.1** Explain in detail Query Optimization for Parallel Query evaluation. [10]

**OR**

Explain in brief the Distributed Data Storage and Concurrency Control in Distributed Database.

**Q.2** Explain the creation and working of Inverted Index in Web Search Engine. [10]

**OR**

What is Web Crawling? Discuss the various web search statistic used for implementing Web Crawling.

**Q.3** What is a Data Warehouse? Discuss the architecture and major components of a Data Warehouse. [10]

**OR**

State the different techniques used in Data Mining. Explain in brief the different technique used for Classification.

**SECTION – II**

**Q.4** Discuss in brief the concepts of Object Oriented Data Model. Compare and contrast OODBMS and ORDBMS. [10]

**OR**

What is XML? Discuss in detail the structure of XML data and XML document schema.

**Q.5** What is Spatial Indexes? State the different Spatial Index methods used. Explain in detail any two methods. [10]

**OR**

What are R-Trees? Explain the different operations performed on an R-Tree.

**Q.6** What is a Deductive Database? Explain in detail the Recursive Queries with negation. [10]

**OR**

Explain in details Transaction Management in Multi-databases.

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