



UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)
उत्तराखण्ड मुक्त विश्वविद्यालय, हल्द्वानी (नैनीताल)

MCA 1ST YEAR 2ND SEMESTER ASSIGNMENT

Last Date of Submission: 31May 2016

Course Title: Fundamental of database management system **Course Code:** MCA-07

Year: 2015-16

Maximum Marks: 40 Marks

Section 'A' contains 08 short answer type questions of 5 marks each. Learners are required to answers 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.

1. What are the characteristics of SQL? Explain the SQL logical operators with examples.
2. What do you mean by the terms: field, record, file? Explain with example.
3. Explain the different types of keys with an example.
4. Differentiate between a strong entity set and a weak entity set.
5. What is the different between DROP TABLE command and TRUNCATE command?
6. Mention the difference between text files and database files.
7. What is logical data independence and why is it important.
8. Explain the following
 - i. Database security
 - ii. Distributed databases

Section 'B' contains 04 long answer-type questions of 10 marks each. Learners are required to answers 02 questions only.

1. What is Normalization? Explain 1NF, 2NF and 3NF with an example.
2. What is deadlock? Discuss the different ways of preventing deadlock and detecting deadlock.
3. Answer the following
 - i. Discuss the different database anomalies

- ii. Describe the three levels of data abstraction.
4. Explain the difference between File system and Database management system.

