



UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)

MScIT-12 1st YEAR 2nd SEMESTER ASSIGNMENT*Last Date of Submission: 15 May,2014***Course Title:** Fundamentals of Database Management System. **Course Code:** MScIT-07**Year:** 2013-14**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. Differentiate between database system and file system.
2. Discuss the candidate key, primary key, super key, composite key and alternate key.
3. What do you mean by the terms aggregation and generalization.
4. Explain the types of database Systems.
5. Explain the DDL Commands in SQL with example.
6. What is Functional Dependency? Explain with example
7. What are the responsibilities of a Database Administrator (DBA)?
8. Explain the DML commands in SQL with example.
9. Differentiate between a strong entity set and a weak entity set.

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

1. What are the various characteristics of SQL? Discuss five aggregate functions with a suitable example.
2. What are the responsibilities of a Database Administrator (DBA)?
3. Explain the two tier architecture of DBMS.
4. Explain Normalization and its Techniques.