



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

MCA-16/MCA-11 2<sup>ND</sup> YEAR 4<sup>TH</sup> SEMESTER ASSIGNMENT

*Last Date of Submission: 31/05/2017*

**Course Title:** Advanced database management system

**Course Code:** MCA-13

**Year:** 2016-17

**Maximum Marks:** 30/40

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

1. Difference between DBMS approach & traditional file approach.
2. What is the difference between strong entity and weak entity?
3. Write a short note on aggregation.
4. What is primary, candidate, foreign key?
5. What are the advantages and disadvantages of relational model?
6. What is relational algebra and what are its uses?
7. What are the characteristics of SQL?
8. Define BCNF with an example.

**Section 'B' contains 04 long answer-type questions of 7/10 marks each. Learners are required to answers 02 questions only.**

1. What do you mean Database Language? What are the different types of data base language?
2. What is Functional Dependency? Explain with an example.
3. What is database security? Explain the different database security issues?
4. Briefly explain the rules of Codd.