



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

PGDCA-16/PGDCA-17  
1<sup>ST</sup> YEAR 2<sup>ND</sup> SEMESTER ASSIGNMENT

*Session - 2017-18, Summer Last Date of Submission: 31st October 2017*  
*Session - 2017-18, Winter Last Date of Submission: 30th April 2018*

**Course Title:** Fundamental of database management system **Course Code:** PGDCA-07  
**Maximum Marks:** 30/20

**Section 'A' contains 08 short answer type questions of 4/2.5 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 do you mean by the terms: field, record, file? Explain with examples.
2. Difference between DBMS approach & traditional file approach.
3. Explain the difference between weak and strong entity set.
4. What is SQL and what are the characteristics of SQL?
5. What is the difference between LIKE operator and BETWEEN operators?
6. What is generalization and aggregation?
7. What is database security? Mention two database security requirements.
8. What is functional dependency? What are its types?

**Section 'B' contains 04 long answer-type questions of 7/5 marks each. Learners are required to answers 02 questions only.**

1. Explain three level database architecture. What are its objectives?
2. What is Normalization? Explain the different normal form with an example.
3. Explain the responsibilities of DBA.
4. What is data independence? Explain the difference between physical and logical data independence. Explain the three categories of relationships.