



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

BCA-16/BCA-17 2ND YEAR 3RD 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: Database Management System

Course Code: BCA-09

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. Differentiate between physical and logical data independence.
2. Differentiate between Weak and Strong Entity Set.
3. What do you mean by mapping cardinality?
4. What is Referential Integrity? Explain with example.
5. Differentiate between prime attribute and Nor-prime attribute with example.
6. Discuss the locking techniques for concurrency control.
7. What do you mean by integrity constraint?
8. What is inner join? Discuss with example.

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

1. Describe the important features of ER data model in detail.
2. Describe ER Data Model in detail.
3. What is the need of normalization? Describe 2NF, 3NF and BCNF with examples.
4. Write short note on any two of the following:
 - a. Data Independence
 - b. Functional Dependency
 - c. Foreign Key
 - d. Database Recovery