

Advance Database Concepts

Date: 08-04-2025

Instructor(s)

Mr. Muhammad Naveed

Quiz #03 (B)

Course code: CS4064

Total marks: 10

Questions: 1

Roll No

Section

Student Signature

Attempt all the questions.

CLO 2#: Apply the models and approaches in order to become enabled to select and apply appropriate methods for a particular case

Q1: Consider a disk with block size $B=2048$ bytes. A block pointer is $P=6$ bytes long. A file has $r = 1,000,000$ transaction records of fixed length. Record length R is 115 bytes long and customerID field is 10 bytes long. Suppose the file is ordered by the non-key field customerID and we want to construct a clustering index on customerID field that uses block anchors (i.e., every new value of customerID starts at the beginning of a new block). Assume there are 2500 distinct values of customerID, and that the transaction records are evenly distributed among these values. Calculate: