

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 33706Roll
No.

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B. Tech. Examination 2021-22**(Even Semester)****DATA STRUCTURE USING 'C'***Time : Three Hours]**[Maximum Marks : 60***Note :-** Attempt all questions.**SECTION - A**1. Attempt all parts of the following : 8 × 1 = 8

- (a) What is data structure and why we use it?
- (b) Define abstract data type.
- (c) Compare time and space complexity.
- (d) If the tower of Hanoi is operated on $n = 10$ disks, calculate the total number of moves.

[P. T. O.]