

**Metropolitan University, Sylhet**  
**Department of Computer Science and Engineering**

**Autumn Term Final Examination – 2020**

**Program: B.Sc. in CSE; Course: CSE 134: Data Structure Lab**

**Time: 3.5 Hours**

**Marks: 40**

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[All questions are mandatory. ]

- 1) Write a recursive function to find the minimum element of an array. **10**
  
- 2) Write the code of the algorithm which will help you to traverse the cities of your country in a possibly shorter time. Explain the reason to use the algorithm briefly. **10**
  
- 3) You want to buy an online subscription from a website where the plans are shown to you in the order of fees of respective plans. How could you find your targeted plan for a particular fee? **10**
  
- 4) You can choose books based on their ratings. How could you find the best-rated book efficiently from a collection of books, given the ratings of the books? **10**