Roll No. .....

97670

BCA 3rd Semester
Examination – December, 2022

DATA STRUCTURE - I

Paper : BCA-202

Time : Three Hours] *[Maximum Marks : 80*

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt ***five*** questions in all, selecting ***one*** question from each Unit. Question No. **1** is ***compulsory***.

1. Write short note on following : 16

(i) Data structure

(ii) Array

(iii) Deque

(iv) Graph

UNIT – I

2. Define Data structure. Explain its categories and applications in detail. 16

3. (i) What do you mean by Pattern Matching algorithm. Explain in detail. 8

(ii) Define string and string operation in detail. 8

UNIT – II

4. Explain the following : 16

(i) Parallel arrays

(ii) Deletion in on array

5. Describe the following : 16

(i) Garbage collection

(ii) Two way linked list

UNIT – III

6. (i) Define Stack. Explain different operation on stacks in detail. 8

(ii) Give a complete description about recursion. 8

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7. Define queue. Explain operations on queues. Also describe its applications in detail. 16

UNIT – IV

8. What is traversing in data structure. Explain in detail. 16

9. Define graph. Explain sequential and linked representation of graphs. 16

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