

[CB-BS 425]

AT THE END OF FOURTH SEMESTER (CBCS PATTERN)

COMPUTER SCIENCE - IV - DATA STRUCTURES

(From the Admitted Batch of 2015-2016)

Time: 3 Hours

Max. Marks: 75

SECTION A — (5 × 5 = 25 marks)

Answer any FIVE questions. Each question carries 5 marks.

1. Linear data structure

2. Single linked list

3. Circular queues.

4. Priority queues.

5. ADT

6. Heap trees.

7. Bubble

8. Quick

SECTION B — (5 × 10 = 50 marks)

Answer ALL questions. Each question carries 10 marks.

9. (a) Write a note on linear lists.

Or

(b) Write a note on various types of arrays.

10. (a) Write about stacks.

Or

(b) Write a note on queues.

11. (a) Write a note on binary tree.

Or

(b) Write a note on threaded binary tree.

2023



12. (a) Write about minimal spanning trees.

Or

(b) Write about graphs and its representations.

13. (a) Write a note on sequential searching.

Or

(b) Write about heap sort and merge.

