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SUBJECT CODE NO: - BB-2446
FACULTY OF SCIENCE AND TECHNOLOGY
B. Sc. (CBCGS) (Pattern 2022) S.Y SEM III
Examination November / December 2024
Computer Science-VII Data Structure

[Time: 1:30 Hours]**[Max. Marks:40]**

Please check whether you have got the right question paper.

N. B

- 1) All questions are compulsory.
- 2) All question carry equal marks.

Q1 What is data structure & Explain the need of data structure.

10

OR

a] Explain different types of arrays.

05

b] Explain binary search algorithm.

05

Q2 What are the types of linked lists? Explain in detail.

10

OR

a] Explain the recursion with suitable example.

05

b] Explain any two types of queue.

05

Q3 Write short notes on (any two)

10

- 1) Complexity of algorithms.
- 2) Traversing of linear arrays
- 3) Circular linked list.
- 4) Dequeue



Q4 Multiple choice questions

10

1. Stack is also called _____
 - a. First in last out
 - b. Last in first out
 - c. Last in Last out
 - d. First in First out
2. Which data structure can't store the non-homogeneous data elements.
 - a. Arrays
 - b. Records
 - c. Pointers
 - d. None
3. Which of the following is non- linear data structure?
 - a. Stacks
 - b. List
 - c. strings
 - d. Trees

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