150

Class-BA/B.Sc.-IV Sem. Subject -Computer Science Paper- Data Structures & C++

Time Alfowed: 3 Hours

Maximum Marks:75

Section - A

Attempt any Five. All questions carry equal marks.

- 1. What is a Data Structure? Which data structure is best suitable for your organisation and why explain? 15
- 2. What is an Array? How array elements are represented in memory? Also distinguish between linear and multi dimensional arrays.
- What is a linked list? Explain in sertion and deletion operation in detail and also discurs padvantages of linked list over array.
- What is a stack? What are the applications of stack?
 Explain.
- 5. (a) Explain Bubble Sort.
 - (b) Distinguish between Linear Search and Binary Search.
- 6.(a) Explain Quick sort in detail.
 - (b) Constructors and Destructors.
- 7. What is Operator Overloading? Explain. 15

http://www.gnduonline.com

8. (a) Write a program to show the concept of encapsulation and abstraction.8

(b) Differentiate between Private and Public access specifiers.

http://www.gnduonline.com