

P30/P32/P131/CMP215/CMP505/EE/20180610

Time : 3 Hours

Marks : 80

Instructions :

1. All Questions are Compulsory.
2. Each Sub-question carry 5 marks.
3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
4. Question paper of 80 Marks, it will be converted in to your programme structure marks.

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1. Solve any **four** sub-questions.
 - a) What is Data Structure? 5
 - b) What is Asymptotic Notations? 5
 - c) Explain the Bubble sort with example. 5
 - d) Explain the Binary Search with example 5
 - e) What is Stack? List the operations on stack 5
 2. Solve any **four** sub-questions.
 - a) What is application of Stack? 5
 - b) Define Queue. Explain queue using array. 5
 - c) List the application of Queue. Explain the Double Ended Queue. 5
 - d) What is Linked List? Explain types of linked list. 5
 - e) Explain the Circular Linked List. Enlist the operations on it. 5
 3. Solve any **four** sub-questions.
 - a) Explain the Hyper Text Transfer protocol with three features. 5
 - b) Explain difference between switch and router. 5
 - c) Difference between TCP/IP model and OSI model. 5
 - d) What are the use of computer network? 5
 - e) What is function of data link layer? 5
 4. Solve any **four** sub-questions.
 - a) What is Tree? 5
 - b) Define Binary Search Tree. 5
 - c) List the Tree Traversal methods. 5
 - d) What is Graph data structure? 5
 - e) List and explain the operations of linked list. 5