Code No: 157EK JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, February/March - 2022 DATA STRUCTURES (Common to CE, ME, ECE)

Time: 3 Hours

Max. Marks: 75

Answer any five questions All questions carry equal marks

1.	Write a program to find the addition of two polynomials using linked list.	[15]
2.a) b)	Explain the operations of Queue with an example. Write an algorithm to delete an element from queue by using linked representation	n.[7+8]
3.a) b)	Explain the different types of hash functions with an example. Explain about quadratic probing and linear probing with example.	[8+7]
4.	Insert the following list of elements by using double hashing (size of hash table is	5).
	52, 34, 62, 48, 45, 31, 40, 53, 37, 32	[15]
5.	Construct the AVL tree of the list of elements 56, 89, 90, 22, 34, 46, 18, 25, 10, 85	[15]
6.	Write an algorithm to insert and delete an element from Binary Search Tree.	[15]
7.	Find the BFS and DFS of the following graph	[15]
	F G	

8. Consider the following text T and pattern P.

T = EIUHIWABNQLSZNROBMC

P = NQLSZN

Write and apply the Boyer Moore algorithm and also illustrate the intermediate steps.[15]

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