

Roll No.									
----------	--	--	--	--	--	--	--	--	--

B.E / B. Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL/MAY 2013

ELECTRONICS AND COMMUNICATION ENGINEERING

_____ Semester

2

EC 273 PROGRAMMING AND DATA STRUCTURES

(REGULATIONS 2004)

Time: 3 Hours

Maximum Marks: 100

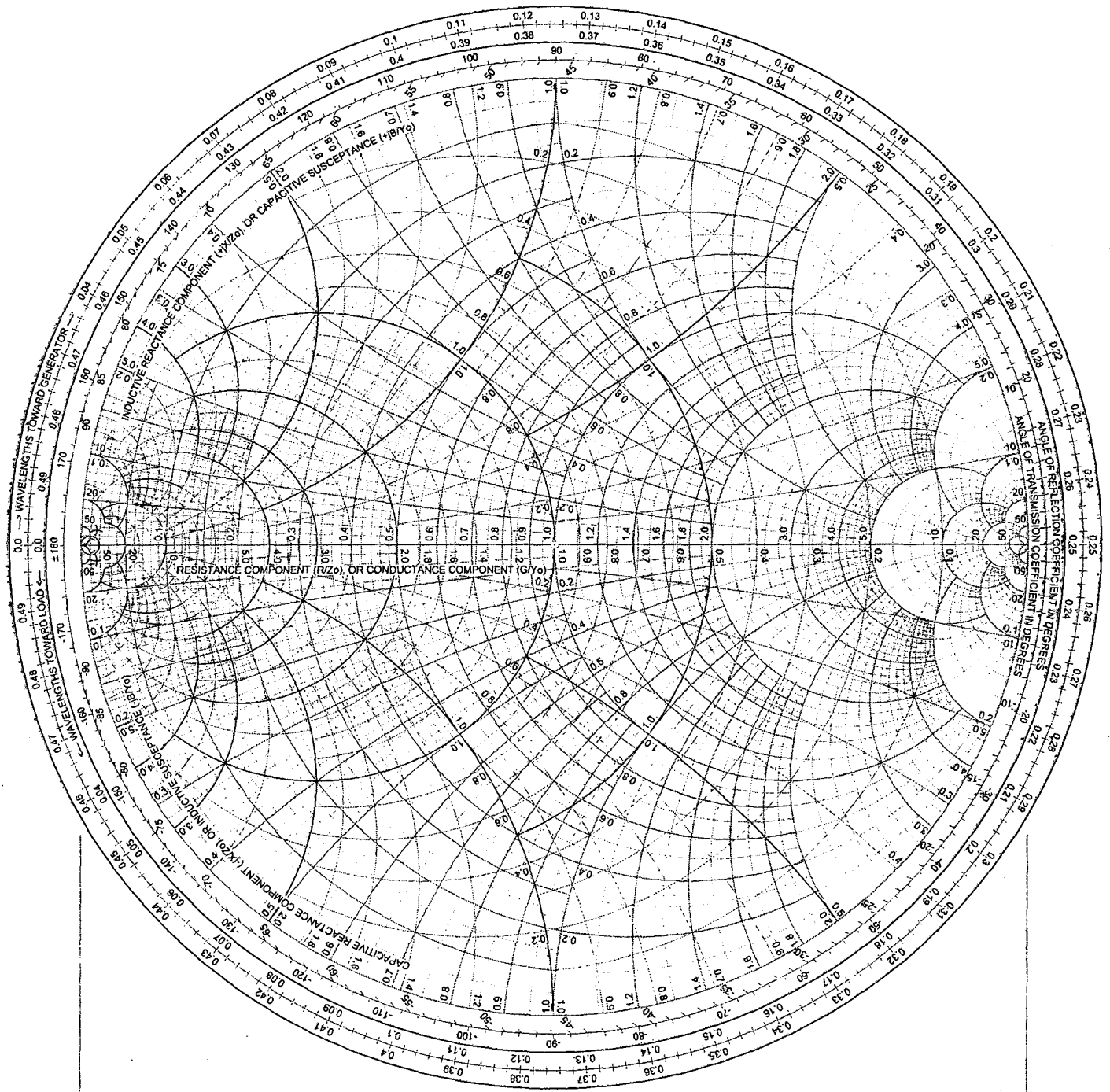
Answer ALL Questions

Part – A (10 x 2 = 20 Marks)

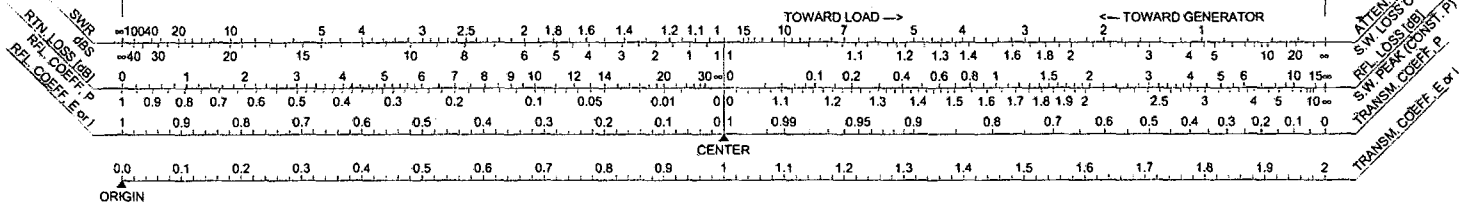
1. Define "Data Structure" and write its basic operations.
2. Write the differences between "stack" and "queue".
3. Define: Binary Tree and Binary Search Tree.
4. What are the three ways of binary tree traversal?
5. Define: "Priority Queue" and give an example for it.
6. What is mean by "Hashing"?
7. Write the worst case time complexities of Insertion Sort and Merge Sort.
8. Define: "Heap". What is the use of it?
9. What is meant by "Adjacency Matrix" of a Graph?
10. What are the different ways of Traversing a Graph?

Part – B (5 x 16 = 80 Marks)

11. (a). Explain the procedure to insert an element in the beginning, middle and end of a Linked List.
12. (a). Explain the procedure to convert a "general tree" into a "binary tree".
or
12. (b). Explain how to construct a binary tree with the help of "inorder" and "preorder" traversal sequence of the binary tree.
13. (a). Explain the applications of Priority Queue.
or
13. (b). Explain the differences between "Separate Chaining" and "Open Addressing" with its implementation details.
14. (a). Explain the procedure of the Insertion Sort.
or
14. (b). Explain the procedure of Mergesort
15. (a). Explain the construction of minimal spanning tree by kruskal's algorithm.
or
15. (b). Explain the working principle of Floyd-Warshall Algorithm".



RADIALLY SCALED PARAMETERS



ORIGIN

CENTER

TOWARD LOAD →

← TOWARD GENERATOR

ATTEN. COEFF.
SWR LOSS COEFF.
REFL. LOSS COEFF.
SWR LOSS COEFF.
TRANSM. COEFF. P