

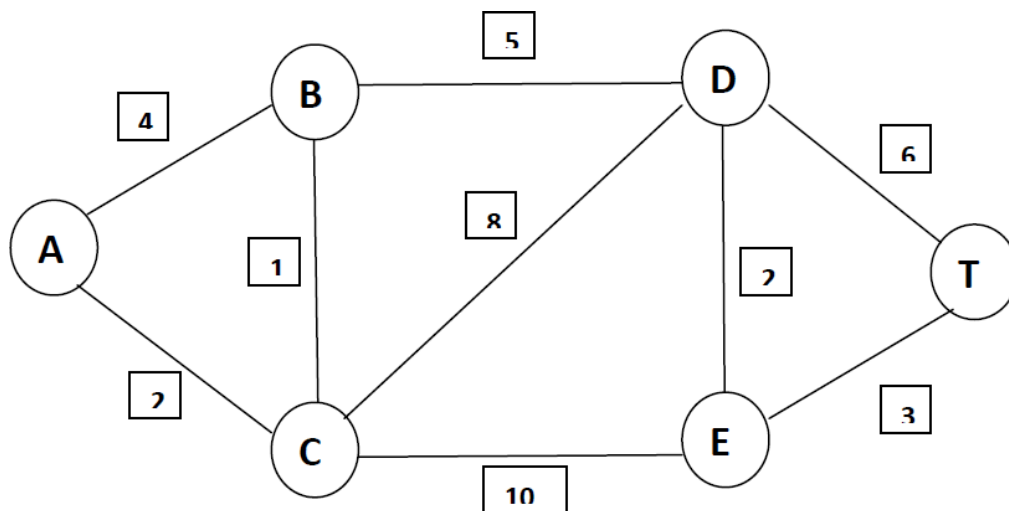
Assignment 5

Covered Topics:-

Dijkstra's Algorithm and Encoding Schemas

Problem 1

Create the routing table of the router 'A' in the following network and determine the cost if the destination is the router T. (Dijkstra's Algorithm)



Problem 2

Create the routing table using the data in the previous question (Destination, Next hop, Cost).

Problem 3

Find the interface each IP address should go through.

Prefix Match	Link Interface
10.50.20.0 /24	0
10.50.20.0 /22	1
10.50.0.0 /16	2
10.0.0.0 /8	3
Otherwise	4

- a) 10.50.20.10
- b) 10.50.20.16
- c) 10.0.0.50
- d) 24.0.0.1

Problem 4

Draw for the follow bits their corresponding graph for the following coding schemes: (01001101)

- a) UniPolar.
- b) Polar (NRZ-L , NRZ-I, RZ).
- c) Bipolar AML.