Roll	No.	

TCS-703

B. TECH. (SEVENTH SEMESTER) MID SEMESTER EXAMINATION, Oct., 2022

algorithm to compute the shortest path from 'A'

COMPUTER NETWORKS-II

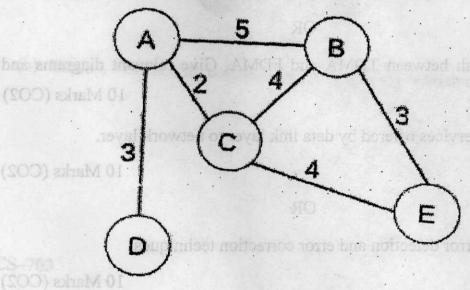
Time: 11/2 Hours

Maximum Marks: 50

Note: (i) Answer all the questions by choosing any one of the sub-questions.

(ii) Each sub-question carries 10 marks.

1. (a) Consider the below network topology where circles represent routers and the routers are using a distance-vector routing algorithm to determine the least cost routes to all other router: 10 Marks (CO1)

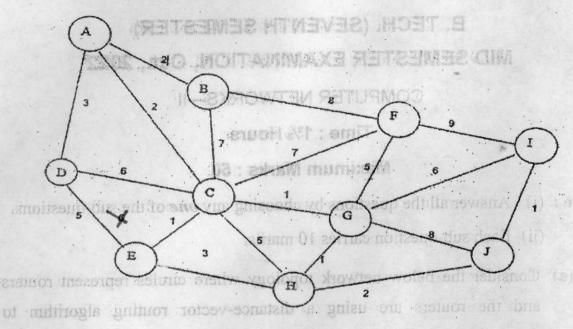


OR

Roll No.

(b) Consider the following network. With the indication link costs, use LS algorithm to compute the shortest path from 'A' to all network nodes. Show the result in the tabular format.

10 Marks (CO1)



2. (a) Explain all the protocols briefly RIP, OSPF and BGP. 10 Marks (CO2)

OR

- (b) Distinguish between TDMA and FDMA. Give relevant diagrams and examples.

 10 Marks (CO2)
- 3. (a) Discuss services offered by data link layer to network layer.

10 Marks (CO2)

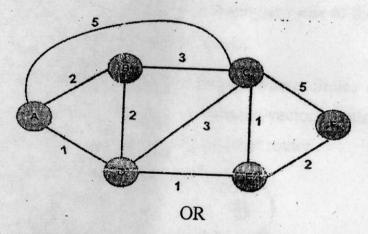
OR

(b) Explain error detection and error correction techniques.

10 Marks (CO2)

OR

- (b) Explain the MAC Protocols. State the difference between Slotted ALOHA and Pure ALOHA. 10 Marks (CO1)
- (a) Consider the following network. With the indication link costs, use LS algorithm to compute the shortest path from 'A' to all network nodes. Show the result in the tabular format.
 10 Marks (CO2)



(b) Explain CSMA with collision detection and collision avoidance.

10 Marks (CO2)