Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India

(Autonomous College Affiliated to University of Mumbai)

Re- ~~End Semester~~ Examination

Max. Marks: 100	Duration: 3 Hr
Class: T.E.	Semester: VI
Course Code: ETC603	Branch: Electronics and Telecommunication
Name of the Course: Computer Communication Telecom Networks	

Instruction:
- (1) All questions Q1-Q5 are compulsory
- (2) Assume suitable data if necessary
- (3) Draw neat diagrams

Q No.		Max. Marks	CO
Q.1 (a)	Summarize the role of layer in OSI model with suitable diagram?	10	CO1
Q.1 (b)	How TCP/IP protocol suit is different from OSI model	10	CO1
	OR		
Q.1 (b)	Explain unicast, multicast, broadcast with example of IP address		
Q.2 (a)	Draw and give the importance of each field of TCP segment	10	CO4
Q.2 (b)	Compare the TCP header and the UDP header. List the fields in the each TCP header that are not part of the UDP header. Give the reason for each missing field.	5	CO4
	OR		
Q.2 (b)	What do you mean by process to process communication ? Give the two example process to process communication with socket address		
Q.2 (c)	What do you mean by congestion control?In what way token bucket algorithm is superior to leaky bucket?	5	CO4
Q.3 (a)	Explain mail transfer process phase wise with suitable diagram .	10	CO5
	OR		
Q.3 (a)	Give the name of the connection oriented process to process communication. Explain basic working principle of FTP .	10	CO5
Q.3 (b)	Which protocol is responsible to map Name vs IP address? Explain the different sections of Domain Name Space.	10	CO5
Q.4(a)	Find the shortest path tree for node G using Dijkstra's algorithm.	10	CO3

Topology
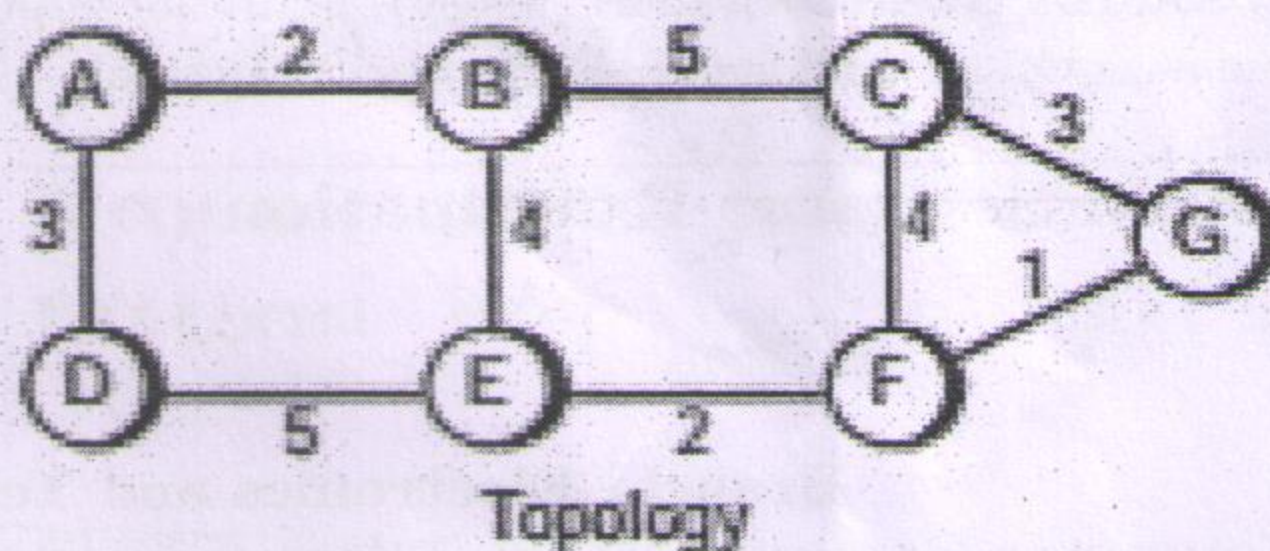
Q.4 (b)	Draw the interior RIP message format and give the role of each field in message. what are the role of RIP timers in its operation.	10		CO3
	OR			
Q.4 (b)	How path attribute in BGP helps router make a better decision ? Different between I -BGP and E-BGP	10		CO3
Q.5 (a)	Classify the physical media for computer networks. Comment on optical fiber and DSL physical media	10		CO2
Q.5 (b)	Classify Ethernet Evolution and Draw Ethernet LAN frame format which is used in our version of Ethernet.	10		CO2
	OR			
Q.5 (b)	What do you mean by collision ? Show the collision detection by CSMA/CD flow diagram	10		CO2