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 ~~2018~~

5/04/2019

Max. Marks: 100 **Duration: 3 Hr**

Class: T.E. **Semester: VI**

Course Code: ETC603 **Branch: Electronics and Telecommunication**

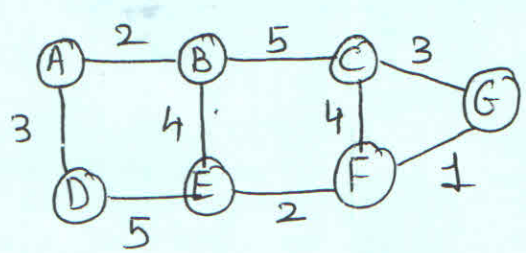
Name of the Course: Computer Communication Telecom Networks

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)	What is the role of Network layer in OSI model?	5	CO1
Q.1 (b)	Draw TCP/IP protocol suit and explain in detail	10	CO1
	OR		
Q.1 (b)	Compare between OSI model and TCP/IP protocol suit	10	CO1
Q.1 (c)	Explain the working principle of basic model of TFTP	5	CO1
Q.2 (a)	Draw a TCP segment and explain in brief each field of segment	10	CO4
Q.2 (b)	Differentiate between TCP and UDP .	5	CO4
	OR		
Q.2 (b)	Following is a dump of UDP header in hexadecimal format CB84000D001C001C i)What is source port number? ii)What is destination port number? iii)What is total length of user datagram? iv)What is length of data? v)What is the client process?	5	CO4
Q.2 (c)	What do you mean by bustry traffic ? how it is handled by token bucket algorithm	5	CO4
Q.3 (a)	Explain the phases of mail transfer with suitable diagram .	10	CO5
	OR		
Q.3 (a)	Draw and explain state transition diagram of DHCP.	10	CO5
Q.3 (b)	What is socket address? Write steps for socket programming	5	CO5
Q.3 (c)	What is the role of resolver in name address resolution.	5	CO5
Q.4(a)	Find the shortest path tree for node G using Dijkstra's algorithm. 	10	CO3

Q.4 (b)	Classify interior and exterior unicast routing protocol and justify BGP is exterior protocol	10	CO3
	OR		
Q.4 (b)	What are the disadvantages of distance vector routing ?How it is overcome by Link state routing?	10	CO3
Q.5 (a)	Classify the physical media for computer networks. write a note on WiMax	10	CO2
Q.5 (b)	Compare between TDM and FDM	5	CO2
	OR		
Q.5 (b)	Draw and explain the field of Ethernet frame.	5	CO2
Q.5 (c)	Justify Slotted ALOHA efficiency is more than Pure ALOHA	5	CO2