



# Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058, India  
(Autonomous College Affiliated to University of Mumbai)

## Re-exam (2018-19) End Semester Examination

06/01/2020

Duration: 3 Hr.

Semester: VI

Max. Marks: 60

Class: T.E.

Course Code: ET62

Name of the Course: Computer Communication Networks

Branch: Electronics and Telecommunication

### Instruction:

- (1) All questions Q1-Q4 are compulsory
- (2) Assume suitable data if necessary
- (3) Draw neat diagrams

Q No.		Max. Marks	CO
Q.1 (a)	Define the role of layer of OSI model. i) Session Layer ii) Transport layer	5	CO1
Q.1 (b)	What is socket programming? Explain the working principle of client server model.	10	CO1
Q.1 (b)	OR State the hierarchical name space. Give the role of any two DNS resolver	10	CO1
Q.2 (a)	Justify the following services provided by TCP i) Process to process Communication ii) Stream delivery service iii) segment iv) Connection oriented service.	10	CO3
Q.2 (b)	Justify the merits of Go Back N over Stop and Wait reliable data transfer	5	CO3
Q.2 (b)	OR The following is a dump of a TCP header in hexadecimal format. (05320017 00000001 00000000 500207FF 00000000)16 a. What is the source port number? b. What is the destination port number? c. What the sequence number? d. What is the acknowledgment number? e. What is the length of the header?	5	CO3
Q.3 (a)	What are the fragmentation field in IP datagram. Give the importance of these fields.	10	CO2
Q.3 (a)	OR Draw packet format of IPv6. Give the importance of each field and highlight the merits of IPv6 over IPv4.	10	CO2
Q.3 (b)	BGP is exterior protocol, justify	5	CO2



Q.4(a)	State three security goals. Justify Taxonomy of attacks with relation to security goals can be threatened by security attacks	10	CO1
Q.4(a)	<b>OR</b> What do you mean by Firewall? How it control access to a system		
Q.4(b)	Give the concept of VPN with neat diagram	5	CO1
	<b>OR</b> What is the issue with Symmetric-Key Distribution? How it is overcome by Key-Distribution Center( KDC)		