BHARATIYA VIDYA BHAVAN'S

SARDAR PATEL INSTITUTE OF TECHNOLOGY

MUNSHI NAGAR, ANDHERI (WEST), MUMBAI – 400 058, India (Autonomous College Affiliated to University of Mumbai)

Mid Semester Examination-Synoptic

Max. Marks: 20 Class: B.E./B.Tech. ETRX Duration: 1Hr. Course Code: ELE 73B Semester: VII

Subject: Computer and Communication Networks Date: 18/09/19 Time: 2.00PM

Instructions: (1) All questions are compulsory.

(2) Use of scientific calculator is allowed.

(3) Assume any necessary data but justify the same.

Q. No. Q. 1	Questions This is class C network-address. So default mask is 255,255,255,0 and as			СО	BL
	is 255.255.2 customized s Ranges of su Subnet	10	CO 3	L3	
	Number	Addresses			
	1.	³ 201.70.64.0 to 201.70.64.31	10	CO 3	
	2.	201.70.64.32 to 201.70.64.63	10	CO 3	L3
	3.	201.70.64.64 to 201.70.64.95			
	4.	201.70.64.96 to 201.70.64.127			
	5.	201.70.64.128 to 201.70.64.159			
	6.	201.70.64.160 to 201.70.64.191			
In ac	order to fine ddress and sub (Department	the subnet we have			

	and ho	ost	y we can find remaining network-address -address.			
Q.2	Wifi: 802.11 a/b/g/n/ac, 2.4 or 5GHz Bluetooth: IEEE 802.15.1, 2.4GHz Bluettooth uses FFHSS and so it hops at the rate of 1600 hops/sec. So even though it is operating				CO1	L2
	with other frequencies operating in 2.4 GHz band will be minimum/negligible.					
Q.3	DNS uname que UDP care whereas	dns port number: 53 ses TCP for Zone transfer and UDP for ueries either regular (primary) or reverse. In be used to exchange small information at TCP must be used to exchange tion larger than 512 bytes.		02	CO1	L2
Q. 4	1	7	Application Layer / Message format, Human-Machine Interfaces	05	CO1	L2
	PER LAYERS	5	Prosentation Layer / Coding into 1s and 0s; encryption, compression			
		•	Session Layer Authentication, permissions, session reatoration			
	T age		Transport Layer ✓ End-to-end error control			
	PRAVISPORT SERVICE		Network Layer / Network addressing; routing or switching			
	Ø 2		Data Link Layer / Error detection, flow control on physical link			
	è	1	Physical Layer			