

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

Duration: 1Hr.

Semester: VII

Date: 18/09/19

Time: 2.00PM

Max. Marks: 20

Class: B.E./B.Tech. ETRX

Course Code: ELE 73B

Subject: Computer and Communication Networks

Instructions: (1) All questions are compulsory.

(2) Use of scientific calculator is allowed.

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

Q. No.	Questions	Max Marks	СО	BL
Q. 1	A company is granted a site address 201.70.64.0. The company needs 6 subnets. Design the subnets.	10	CO 3	L3
	, OR			
	Yash joins a company as a Network Engineer and finds that there are 4 departments with following information:-	10	CO 3	L3
	(Department1)—IP address: 120.14.22.16 and Mask:255.255.128.0			
	(Department2)—IP address: 140.11.36.22 and Mask:255.255.255.0			
	(Department3)–IP address: 141.181.14.16 and Mask:255.255.224.0			
	(Department4)—IP address: 200.34.22.156 and Mask:255.255.255.240.			
	How will Yash compute the network-address and host Address to be allocated to each department?			
	listening to music using Bluetooth Headset. Which IEEE standards are being identified by	03	CO1	L2
	Ananta's device and on what frequency this application will operate?. Comment on the hopping rate of Bluetooth with interference?			

Q.3	Rahul requested some information from Google Public DNS. On what port number will the DNS server will listen to Rahul's requests? Also, comment on whether DNS is a TCP and/or UDP based protocol with justification?	02	CO1	L2
Q. 4	Draw a neat and labelled diagram of ISO-OSI reference model.	05	CO1	L2

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