

Krantiguru Shyamji Krishna Verma Kachchh University, Bhuj
Master of Science (Computer Applications & Information Technology)
Semester: VI

Paper Code: CCCS622		Total Credit : 4 Total Marks : 70 Time : 3 Hrs
Title of Paper: Computer Network – II		
Unit		
Unit	Description	Weighting
I	The Data Link Layer- I Packet, Framing Techniques (Character Count, Byte Stuffing, Bit Stuffing), Error Control, Flow Control	20%
II	The Data Link Layer – II Error Detection and Correction Techniques (Single Bit Parity, Block Parity, Checksum, CRC Checksum, Hamming Code) An Unrestricted Simplex Protocol, A Simplex Stop-and-Wait Protocol, A Simplex Protocol for a Noisy Channel, Sliding Window Protocols	20%
III	The Medium Access Sublayer The Channel Allocation Problem, Static Channel Allocation in LANs and MANs, Dynamic Channel Allocation in LANs and MANs, Multiple Access Protocols, ALOHA, Carrier Sense Multiple Access Protocols	20%
IV	Network with OS (Linux) Ubuntu: date, ls, who, cal, ps, wc, cat, uname, pwd, mkdir, rmdir, cd, cp, rm, mv, diff, chmod, grep, sed, head, tail, cut, paste, sort, find, iwconfig, ifconfig, arp, rarp, traceroute, ping, hostname, ss & many more ...	20%
V	Network with OS (Windows) Windows: ipconfig, arp, msconfig, services.msc, event logger, advanced taskmanager, ping, nslookup, netstat, tracert, route, hostname, net, nbtstat, whois & Many more..	20%
Basic Text & Reference Books :-		
1.	Computer Networks 4th Edition - Andrew Tanenbaum	
2.	Computer Networking: A Top-Down Approach Featuring the Internet By James F.Kurose , Keith W.Ross	
3.	Data Communication & Networking 4th Edition By Behrouz A.Forouzan	

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Unit	Description		Total Marks
I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.4 (B) Medium / Long Questions. (With Internal Option)	08	
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) Medium / Long Questions. (With Internal Option)	08	