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

Paper Code: CCCS518	Total Credit : 4
Title of Paper: Computer Network – I	Total Marks : 70 Time : 3 Hrs

Unit	Description	Weighting
I	**Introduction** LAN, MAN, WAN, Types of networks [LAN, WAN, WLAN, MAN, SAN, PAN, EPN & VPN], Types of transmission [Simplex, Half Duplex, Full Duplex], PSTN, Switching techniques	20%
II	**The Application Layer - I** HTTP, HTTPS, TELNET, DNS, FTP, DHCP, IMAP	20%
III	**The Application Layer – II** POP, LDAP, RIP, SMTP, SSH, TLS & SSL	20%
IV	**The Physical Layer - I** Guided Transmission Media [Twisted Pair, Fiber Optics, Coaxial], Cabling [cross, straight], IEEE 802.3 Ethernet standard, RJ45 ,RJ11	20%
V	**The Physical Layer - II** Router, Switch, Hub, Analog Modulation, Digital modulation: Modem - phase shift keying - bit rate - boud rate , QAM (Quadrature amplitude modulation)	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	