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

Paper Code: CCCS937		Total Credit: 4	
Title of Paper: Advanced Networking		Total Marks:	
		70	
		Time: 3 Hrs	
Unit	Description	Weighting	
I	The Network Layer		
	Routing Algorithms, Shortest Path Routing, Flooding, Distance		
	Vector Routing, Link State Routing, Hierarchical Routing,	20%	
	Congestion Control Algorithms, IP addresses and Classes, Subnets		
	and Subnet masks. IPv4 v/s. IPv6, Introduction to wire shark &		
II	packet analysis. The Transport Layer		
111	Quality Of Service, Transport Service Primitives, MAC protocols,		
	CSMA/CD, Establishment of Connection, Releasing of	20%	
	Connection, Flow Control and Buffering, Multiplexing, UDP	_0,0	
	Protocols, Real-time Transport Protocol[RTP].		
III	Introduction to virtual machine & configure with real-time machine,		
	Installation of windows server 2012 & Red hat linux server,	20%	
	Configure firewall, Antivirus, Generate & authenticate open VPN		
	certificate & RSA key		
IV	Introduction to Cisco Packet Tracer[CPT], Establish own network using CPT. Introduction to software reversing with	200/	
	using CPT, Introduction to software reversing with ollydbg[debugger] & reflector[dotnet]	20%	
V	Troubleshooting: PC, Router, Switch, Data Recovery from crash hard		
'	disk, bad sector repair, hard disk data recovery, real-time network	20%	
	administration	2370	
Basic Text & Reference Books :-			
1.	Computer Networks 4th Edition - Andrew Tanenbaum		
2.	Computer Networking: A Top-Down Approach Featuring the In	nternet By James	
	F.Kurose, Keith W.Ross		

Data Communication & Networking 4th Edition By Behrouz A.Forouzan

3.

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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	
Ш	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	