GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER–VIII • EXAMINATION – SUMMER • 2014

		Ibject Code: 183202Date: 05-06-2014Ibject Name: System and Network Security	
	Ti	me: 10:30 am - 01:00 pm Total Marks: 70	
		 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a) (b)	Explain design issues in layers. Also discuss critique of the OSI and TCP. Explain X.25 and ATM network.	07 07
Q.2	(a) (b)	Explain security architecture of OSI. What is a security attack? Explain the security mechanism to prevent attacks. OR	07 07
	(b)	Explain network security model.	07
Q.3	(a) (b)	Explain substitution and transposition techniques. Explain data encryption and advance encryption standards. OR	07 07
Q.3	(a) (b)	Explain RSA algorithm with an example. Explain Deffie-Hellman key exchange technique.	07 07
Q.4	(a)	Explain digital signature concept in network security and also discuss authentication protocols.	07
	(b)	Explain IP Security Architecture. OR	07
Q.4	(a) (b)	Define intruders? Explain intrusion detection technique in web security. Explain Service attacks of Distributed Denial.	07 07
Q.5	(a) (b)	What is X.509 Authentication Services? Explain. Define DSS. Discuss with example.	07 07
Q.5	(a) (b)	Is electronic transaction secure? explain secure electronic transaction in web security How to manage password in web security? Explain password management in web security.	07 07
