

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

Subject Code: 183202**Date: 05-06-2014****Subject Name: System and Network Security****Time: 10:30 am - 01:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain design issues in layers. Also discuss critique of the OSI and TCP. **07**
(b) Explain X.25 and ATM network. **07**
- Q.2** (a) Explain security architecture of OSI. **07**
(b) What is a security attack? Explain the security mechanism to prevent attacks. **07**
- OR**
- (b) Explain network security model. **07**
- Q.3** (a) Explain substitution and transposition techniques. **07**
(b) Explain data encryption and advance encryption standards. **07**
- OR**
- Q.3** (a) Explain RSA algorithm with an example. **07**
(b) Explain Diffie-Hellman key exchange technique. **07**
- Q.4** (a) Explain digital signature concept in network security and also discuss authentication protocols. **07**
(b) Explain IP Security Architecture. **07**
- OR**
- Q.4** (a) Define intruders? Explain intrusion detection technique in web security. **07**
(b) Explain Service attacks of Distributed Denial. **07**
- Q.5** (a) What is X.509 Authentication Services? Explain. **07**
(b) Define DSS. Discuss with example. **07**
- Q.5** (a) Is electronic transaction secure? explain secure electronic transaction in web security **07**
(b) How to manage password in web security? Explain password management in web security. **07**
