

BE Semester- ___ VI_ (Information Technology) Question Bank

(Information security)

All questions carry equal marks(10 marks)

Q.1	Explain the types of attacks.
Q.2	Describe various security approaches.
Q.3	Explain the need and principles of security.
Q.4	Describe DES symmetric key cryptography algorithm.
Q.5	Explain various substitution techniques.
Q.6	Explain various transposition techniques.
Q.7	What is digital certification? How it can be achieved?
Q.8	Explain secure socket layer.
Q.9	What are the security aspects attached to Electronic money.
Q.10	Explain the need and types of firewall.
Q.11	What is virtual private network?
Q.12	Write about biometric authentication.
Q.13	Describe the kerberose system.
Q.14	Write the issues in Email security
Q.15	Write the issues in web security.
Q.16	Write the issues in GSM security.
Q.17	How user authentication can be done with authentication token?
Q.18	What is secure electronic transaction and how it can be achieved?
Q.19	How key management is done in case of symmetric and asymmetric cryptography?
Q.20	Describe IDEA(International data encryption algorithm).
Q.21	Describe RC5 algorithm.
Q.22	Describe blowfish algorithm.
Q.23	Describe AES(Advance encryption standard) algorithm.
Q.24	Write a note on secure hypertext transfer protocol.
Q.25	What is a virus?
Q.26	Explain the following 1. Replay attack 2. Denial of service attack
Q.27	What is cryptanalysis?
Q.28	What is encryption and decryption? Draw block diagram that shows encryption and decryption.
Q.29	Explain one time pad and why it is secure?
Q.30	Describe two types of cryptographic algorithms.
Q.31	Explain electronic code book mode.
Q.32	Explain cipher block chaining mode.
Q.33	Explain cipher feedback mode.
Q.34	Explain output feedback mode.
Q.35	Describe the variations of DES(Data Encryption standard).
Q.36	What is the difference between authentication,integrity, confidentiality and nonrepudiation?
Q.37	What are the issues in information security and network security? How they can be solved?

Q.38	Generate public key and private key in case of RSA algorithm if two prime numbers given are 5 and 7. $p=5$ and $q=7$.
Q.39	Explain the different methods to generate random numbers.
Q.40	<u>Write a note on XML and security.</u>