

BE - sem-VII - old - computers
S.S

22/12/15

Q.P. Code : 2496

(3 Hours)

[Total Marks : 100

- N.B. : (1) Question No. 1 is **compulsory**.
(2) Solve any **four** questions from remaining **six** questions.
(3) **Assume** suitable **data** whenever **necessary**.

1. (a) What are different Security Goals ? 5
(b) Distinguish between substitution cipher and transposition cipher. 5
(c) What are the different types of malicious codes ? 5
(d) What are the different types of IP-Spoofing ? 5
2. (a) Explain the structure of DES. 10
(b) What is SHA-1 ? Explain different steps of working of SHA-1. 10
3. (a) IPsec offers security at network layer. What is the need of SSL ? Explain the services of SSL Protocol. 10
(b) Compare Packet sniffing and Packet Spoofing. Explain the session hijacking attack. 10
4. (a) Explain physiological and Behavioral biometric techniques with example. 10
(b) Upon reception of a digital certificate, how one can decide whether to trust that or not. 10
5. (a) Explain Access control list (ACL) and its capabilities. 10
(b) Explain how threat precursors are used for reconnaissance of network. 10
6. (a) What are the various types of port scan ? 10
(b) What is firewalls ? Explain different types of firewalls ? 10
7. Write a short note on (any two) 20
 - (a) Different Security Mechanisms
 - (b) Covert Channel
 - (c) CAPCHA.