

Total No. of Questions : 10]

SEAT No. :

P191

[Total No. of Pages : 2

[5871] - 713

B.E. (Computer)

INFORMATION AND CYBER SECURITY

(2015 Pattern) (Semester - II)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or 10.
- 2) Neat diagrams must be drawn whenever necessary.
- 3) Figures to the right side indicate full marks.

Q1) a) Compare between symmetric key encryption and asymmetric key. [5]

b) Using Hill Cipher, encrypt plain text "COE" key is "ANOTHERBZ". [5]

OR

Q2) a) Illustrate the crypt analysis with dictionary attack. [5]

b) Use single columnar transposition to encrypt plaintext "Come home soon" and use the key "HEAVEN". [5]

Q3) a) Explain feiertel cipher in detail. [5]

b) Explain digital signature algorithm. [5]

OR

Q4) a) Differentiate Block Cipher and Stream Cipher. Also explain both. [5]

b) Explain working of AES algorithm. [5]

Q5) a) Discuss the transport mode and tunnel mode of IP sec in detail. [6]

b) Explain secure socket layer handshake Protocol in detail. [6]

c) What is VPN? Explain types of VPN. [6]

OR

P.T.O.

- Q6)** a) Explain ISAKMP protocol of IPSec. [6]  
b) Explain working of PGP in detail. [8]  
c) Explain various participants required in secure electronic transaction. [4]

- Q7)** a) Explain operation of anomaly based intrusion detection system. [8]  
b) Describe working of packet filtering firewall. [8]

OR

- Q8)** a) Explain working of Application gateways. [8]  
b) List limitations of Fire Wall. [4]  
c) What is trusted system? Explain in brief. [4]

- Q9)** a) Discuss PII confidentiality safeguard. [8]  
b) Who are cyber criminals? What are types of cyber criminals. [8]

OR

- Q10)** a) Explain life cycle of cyber forensics? Explain with diagram. [8]  
b) Explain personally identifiable information (PII). Describe PII impact levels with examples. [8]

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