

Total No. of Questions : 10]

SEAT No. :

P2052

[Total No. of Pages : 2

[5059] - 657

B.E. (Computer Engineering)

CYBER SECURITY (Elective - III)

(2012 Pattern) (End - Sem)

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 Q. 10.
- 2) Figures to right indicate full marks.

- Q1) a) What are the categories of computer security. [5]
b) Illustrate the cryptanalysis with Dictionary attack. [5]

OR

- Q2) a) Explain various active attacks in detail. [5]
b) What is transposition cipher? Encrypt plain text "WE ARE THE BEST" using transposition cipher use key - " HEAVEN" [5]

- Q3) a) Explain feistel cipher in detail. [5]
b) Describe elliptic curve cryptography. [5]

OR

- Q4) a) Compare between symmetric key encryption and asymmetric key encryption. [5]
b) Explain digital signature algorithm. [5]

- Q5) a) Explain working of PGP in detail. [9]
b) Describe IPsec protocol with its components & security services. [8]

OR

- Q6) a) Explain ISAKMP protocol for IP sec. [6]
b) What is VPN? Explain types of VPN. [6]
c) Explain secure socket layer handshake protocol in brief. [5]

P.T.O.

- Q7)** a) Explain types of Intrusion detection systems (IDS). [6]
b) List and explain any two password management practices. [6]
c) What are the various characteristics of firewall? [5]

OR

- Q8)** a) Describe types of firewall in detail. [6]
b) Explain methods for intrusion detection system (IDS) [6]
c) What is Access control security service? [5]

- Q9)** a) How VoIP hacking is done by attackers? What are the counter measures for it? [7]
b) Identifying wireless network defenses & counter measures. [7]
c) What is hacking? Explain mobile hacking. [2]

OR

- Q10)** a) How various wireless devices targeted by hackers in hacking the wireless network ? [7]
b) Explain operation of various hacking devices. [7]
c) What is input validation Attack? [2]

