[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]**

❀ ❀ ❀