SEAT No. :

P2342

[Total No. of Pages : 2

[5254]-677
B.E. (Computer) (Semester - II)
CYBER SECURITY (Elective - III)
(2012 Pattern)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:

    1)   *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.*

    2)   *Neat diagrams must be drawn wherever necessary.*

    3)   *Figures to the right indicate full marks.*

    4)   *Assume Suitable data if necessary*

Q1) a)   What are various security technique used in cyber security?   **[5]**

     b)   Explain various active attacks in detail.   **[5]**

OR

Q2) a)   Use poly alphabetic ciphers to encrypt plain text "SHE IS VERY HAPPY AND BEAUTIFUL GIRL" use key 'ANOTHER'.   **[5]**

     b)   What is Stegnography? Explain its application.   **[5]**

Q3) a)   Explain operation of 3DES algorithm.   **[5]**

     b)   Describe linear & differential cryptanalysis.   **[5]**

OR

Q4) a)   Explain RSA algorithm with suitable example.   **[5]**

     b)   What is kerberas? Explain its operation.   **[5]**

Q5) a)   Describe IPsec protocol with its components & security services.   **[9]**

     b)   What is S/MIME? State operation of S/MIME in detail.   **[8]**

Q6) a)   What is the role of OAK LEY protocal in communication?   **[6]**

b)   Explain the operation of secure electronic transaction protocal.   **[6]**

c)   State security measure applied by VPN for security.   **[5]**

Q7) a)   List & explain types of intrusion detection system (IDS)   **[9]**

b)   Describe screened subnet fire wall architecture.   **[8]**

OR

Q8) a)   Explain the firewall types with its operation.   **[9]**

b)   Explain operation of anomaly based intrusion detection system in detail.**[8]**

Q9) a)   How war dialing software are used in remote connectivity?.   **[8]**

b)   How VolP hacking is done by attackers? What are the counter measures for it?   **[8]**

OR

*Q10)*a)   What is VLAN jumping? What are counter measures used for it?   **[8]**

b)   Explain various hacking devices used for hacking.   **[8]**

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