SEAT No. :

P3231

[5354]-687
B.E. (Computer Engineering)
CYBER SECURITY (Elective - III) (End-Semester)
(2012 Pattern)

Time : 2½ Hours]   *[Max. Marks : 70*

Instructions to the candidates:
1) *All questions are compulsory.*
2) *Figures to the right indicate full marks.*

Q1) a) What are the elements of Information security? Explain in brief **[5]**

b) Explain the operation of polyalphabetic cipher. **[5]**

OR

Q2) a) Explain operational model of network security. **[5]**

b) Encrypt the plain text 'COE' using hill cipher, use keyword 'ANOTHERBZ'**[5]**

Q3) a) Explain the operation of triple DES algorithm **[5]**

b) Explain operation of RSA public key encryption algorithm. **[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 S/MIME with secracy and authentication **[9]**

b) Describe the operation of secure socket layer protocol in detail **[9]**

OR

P.T.O.

Q6) a) What are the security services provided by PGP? **[6]**

b) List and explain components of IPSec protocol **[6]**

c) Explain the operation of secure electronic transaction protocol in brief. **[6]**

Q7) a) Explain operation of anomaly based intrusion detection system in detail **[8]**

b) What is trusted system? Explain in brief **[8]**

OR

Q8) a) Explain the operation of mis used-based intrusion detection system **[8]**

b) Describe operation of packet filtering firewall **[8]**

Q9) a) What is war dialing? Describe various hardware and soft ware used for war dialing. **[8]**

b) Describe various wireless network defences and counter measures. **[8]**

OR

Q10) a) List and explain various Volp attacks **[8]**

b) What are the various hacking devices used in hacking **[8]**

⊖⊖⊖