

Total No. of Questions : 10]

SEAT No. :

P3567

[Total No. of Pages : 2

[4959] - 1167

B.E. (Computer Engineering)**Cyber Security (d)****(2012Pattern) (Elective - III) (End Semester)****Time : 2 1/2 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 the right indicate full marks.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Assume suitable data if necessary.

Q1) a) Explain the Operational Model of Network Security in detail. **[5]**

b) Using hill cipher encrypt plain text "COE" use key "ANOTHERBZ". **[5]**

OR

Q2) a) Describe linear and differential cryptanalysis with suitable example. **[5]**

b) What is Transposition Cipher? Use Transposition Cipher to encrypt the plain text "WE ARE THE BEST" use key "HEAVEN". **[5]**

Q3) a) Explain 3 DES algorithm in detail. **[5]**

b) Explain the operation of Kerberos. **[5]**

OR

Q4) a) Explain various public key distribution approaches. **[5]**

b) Explain Digital Signature Standard. **[5]**

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- Q5)** a) What is Backdoors and Key Escrow in PGP? [9]
 b) Describe IPsec protocol with its components and security services. [8]

OR

- Q6)** a) Explain OAKLEY key determination protocol. [6]
 b) What is secure Electronic Transaction? [6]
 c) Explain Secure Socket Layer handshake protocol in brief. [5]

- Q7)** a) What are the challenges of intrusion detection? [6]
 b) List and explain any two password management practices. [6]
 c) What are the various characteristics of firewall. [5]

OR

- Q8)** a) Explain Architecture of firewall. [6]
 b) Explain Anomaly-based Intrusion Detection System. [6]
 c) What is Trusted System? [5]

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- Q9)** a) What is SIP scanning in VoIP attack? State its counter measure. [7]
 b) Identifying wireless network defenses and countermeasures. [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) What is USB U3 hacking. [7]
 c) What is input validation attack. [2]

