

Total No. of Questions : 10]

P3205

SEAT No. :

[Total No. of Pages : 2

[5670]-307

B.E. (Computer Engineering)

CYBER SECURITY

(Elective - III) (Semester - II) (2012 Pattern)

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) Neat diagrams must be drawn wherever necessary.
- 3) Assume suitable data, if necessary.
- 4) Figures to the right indicate full marks.

Q1) a) What is Steganography? What are the applications and limitations of Steganography? [5]

b) List and explain different security techniques. [5]

OR

Q2) a) What is message digest? Explain message digest calculation using any one algorithm. [5]

b) What is passive and active attack? Explain with suitable examples. [5]

Q3) a) What is digital Signature? Explain digital signature standard. [5]

b) Explain the operations of triple DES algorithm in detail. [5]

OR

Q4) a) Encrypt the plain text 'COE' using hill cipher, use keyword 'ANOTHERBZ'. [5]

b) Explain various authentication methods with example. [5]

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Q5) a) Describe IPsec protocol with its component and security services. [9]
b) Explain working of S/MIME with secrecy and authentication. [9]

OR

Q6) a) Describe the operation of Secure Socket Layer protocol in detail. [9]
b) What is Backdoors and Key Escrow in PGP? [9]

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

b) Explain the Secure Electronic Transaction in detail. [8]

OR

Q8) a) Describe screened subnet firewall architecture. [8]

b) What is Trusted System? [4]

c) What are challenges of intrusion detection? [4]

Q9) a) What is VOIP hacking? What are the counter measures of it? [8]

b) What is USB U3 hacking? Explain in details. [8]

OR

Q10) a) Describe various wireless network defenses and counter measures. [8]

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

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