Total No. of Questions : 8]

P2333

SEAT No. :

[Total No. of Pages : 2

[5870]-1206

T.E. (Computer / Honors)

CYBER SECURITY

Information and Cyber Security

(2015 Pattern) (Semester - I) (310401)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.*
2) *Neat diagrams must be drawn wherever necessary.*
3) *Figures to the right indicates full marks.*
4) *Assume suitable data, if necessary.*

Q1) a) List the requirements for good hash function. And explain how it ensures the integrity of data. **[8]**

b) List difference between MD5 & SHA. **[4]**

c) Explain Diffe-Hellman key exchange algorithm with example. **[5]**

OR

Q2) a) Explain the RSA algorithm with an example. **[8]**

b) Explain MD5 with an example. **[9]**

Q3) a) What are the main similarity and differences between qualitative risk analysis Vs quantitative risk analysis? **[9]**

b) What is cyber stalking and how to prevent it? Enlist example of cyber stalking. **[9]**

OR

Q4) a) What do you mean by ethics in information security? How ethics is important in information security? What are the ethical issues in information security? **[9]**

b) Describe classification of cyber crime in detail. **[9]**

Q5) a) What is SSL? Explain handshake protocol of SSL? **[8]**

b) What are various types of firewall? Discuss limitations of firewall. **[9]**

OR

P.T.O.

Q6) a) Explain p~p algorithm in details. **[8]**

b) Describe briefly how IPsec works and enlist it's applications. Distinguish between tunnel and transport mode of IPsec. **[9]**

Q7) a) Explain need and challenges of intrusion detection system. Define signature based IDS. **[9]**

b) What is computer worm and virus? How does computer virus spread? How to protect against computer virus and worms. **[9]**

OR

Q8) a) Differentiate spyware, Adware & Ransomware. **[9]**

b) Define phishing. Explain phishing with types and examples. **[9]**

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