Total No. of Questions : 8]

SEAT No. : ____

P7765

[Total No. of Pages : 2

[6180]-312
T.E. (Honors)
CYBER SECURITY
Information and Cyber Security
(2019 Pattern) (Semester-I) (310401)

Time : 2½ Hours] ***[Max. Marks : 70***

Instructions to the candidates:

1) ***Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.***
2) ***Figures to the right indicate full marks.***
3) ***Neat diagrams must be drawn whenever necessary.***
4) ***Assume Suitable data if necessary.***

Q1) a) Explain Chinese remainder theorem and its implication in cryptography. **[9]**

b) Discuss Diffie-Hellman key exchange algorithm with example. **[8]**

OR

Q2) a) What do you mean by asymmetric cryptography algorithm? Explain the RSA algorithm with an example. **[9]**

b) Discuss elgamal arithmetic algorithm with example. **[8]**

Q3) a) Explain risk identification, risk Assessment, risk control strategies. **[9]**

b) Differentiate between quantitative and qualitative risk. **[8]**

OR

Q4) a) Define cyber crime. Explain any four categories of cyber crime. **[9]**

b) Discuss any four types of cyber attacks. **[8]**

Q5) a) Discuss working of PKI in detail. **[9]**

b) Differentiate between PGP and S/MIME. **[9]**

OR

Q6) a) Explain the IP security in detail. **[9]**

b) Explain the web security in detail. **[9]**

P.T.O.

Q7) a) Explain intrusion detection system & Its types. **[9]**

b) Discuss Worms, DoS and DDoS in detail. **[9]**

OR

Q8) a) Explain phishing, password cracking, key-loggers in detail. **[9]**

b) Discuss buffer overflow, spyware, adware in detail. **[9]**

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