

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]

