

Total No. of Questions :12]

SEAT No. :

P3011

[5059]-220-A

[Total No. of Pages :2

B.E.(Computer)

INFORMATION SECURITY

(2008 Course) (Semester-II) (Elective-IV) (410451)

Time : 3 Hours]

[Max. Marks :100

Instructions to the candidates:

- 1) Answer 3 questions from section I and 3 questions from section II.
- 2) Answers to the two sections should be written in separate books.
- 3) Neat diagrams must be drawn wherever necessary
- 4) Figures to the right indicate full marks.

SECTION-I

- Q1)** a) What are the heads of information security? Discuss in detail. [10]
 b) Discuss the problems of classical ciphering techniques in details. [8]

OR

- Q2)** a) Draw & explain diagram of lifecycle of information security. [10]
 b) Explain triple DES algorithm with advantages over DES algorithm. [8]

- Q3)** a) What is cryptography? Discuss different types of cryptography in short. [8]
 b) Explain any one mechanism of information security in detail. [8]

OR

- Q4)** a) Explain AES algorithm in detail. [8]
 b) What is ciphering ? Explain any one ciphering technique with suitable example. [8]

- Q5)** a) Discuss Man-in -middle attack with example. [8]
 b) Explain algorithm for key management. [8]

OR

- Q6)** a) What is kerberos? Discuss it in detail. [8]
 b) Differentiate public & private key cryptography. [8]

P.T.O.

- Q7)** a) Encrypt any one message using ECC algorithm. [10]
 b) What is MDS ? Explain MDS in detail with suitable example. [8]

OR

- Q8)** a) Explain P K I in detail. [10]
 b) What is hash function? Differentiate hash & MAC with suitable example. [8]

- Q9)** a) Discuss design principle of firewall. [8]
 b) What is IDS ? Discuss its applications in network. [8]

OR

- Q10)** a) Discuss working principle of intrusion detection prevention system. [8]
 b) Differentiate TLS and SSL. [8]

- Q11)** a) What is SET? Discuss it with suitable example. [8]
 b) Discuss working principles of PGP. [8]

OR

- Q12)** Write a short note on following: [16]

- a) Any one email format.
 b) SET
 c) Applications of smart cards.
 d) Security services.

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