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Sixth Semester B.E. Degree Examination, Dec.2018/Jan.2019 Cryptography, Network Security and Cyber Law

Time: 3 hrs. Max. Marks: 80

Note: Answer any FIVE full questions, choosing one full question from each module.

Module-1

1	a.	Define cyber security?	Explain the motives of cyber a	ttack. (05 Marks
	1	TT (1 1 TO 1'1	1 11 01 01 11 01	0 1.1 700

Use extended Euclidean algorithm to find inverse of 12 modulo 79? (05 Marks)

Apply Chineese reminder theorem to find square roots of 3 modulo 143 and list all square roots of -3 modulo 143. (06 Marks)

OR

Explain DES construction in detail. a. (05 Marks)

Explain confusion and Diffusion with example. (05 Marks) Explain three sounds SPN Network. (06 Marks)

Module-2

Explain RSA operation in detail. 3 a. (06 Marks)

Explain Public Key Cryptography Standards (PKCS) b. (10 Marks)

Explain Deffie Helman key exchange.

OR

If the RSA public key is (31, 3599) what is the corresponding private key. a. (05 Marks)

Explain Basic properties of hash function. b. (05 Marks)

Explain Birthday attack. (06 Marks)

Module-3

Explain identity based encryption. 5 a. (05 Marks)

Explain Needham Schroeder protocol version – b. (05 Marks) (06 Marks)

Explain Kerberos with message sequence.

OR

Explain password based one way authentication. (05 Marks)

Explain Needham - Schroeder protocol version -2. (05 Marks)

c. Explain SSL Handshake protocol. (06 Marks)

Module-4

Explain authentication and master session key exchange in 802.11i? (05 Marks) Explain worm features. b. (05 Marks)

Explain Function of Firewall. (06 Marks)

OR

Explain 802.11i four way handshanke with neat diagram. 8 (05 Marks) a.

List and explain practice issues of Firewall. b.

Explain DDOS attack prevention and detection. (06 Marks)

(05 Marks)

Module-5

9 a. Discuss OFFENES defined as per IC Act 2000 (any Four)

(08 Marks)

b. Explain briefly certifying authority, suspensions, and revocations of digital signature.

(08 Marks)

OF

10 a. What is information technology act? Discuss scope and objectives.

(08 Marks)

b. Discuss the provisions of the IT act as regards to the following:

i) Legal Recognition of Electronic records

ii) Authentication of electronic records.

(08 Marks)

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