CBCS SCHEME

USN 15CS61

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

Time: 3 hrs. Max. Marks: 80

		N	ote: Answer any FIVE full questions, choosing one full question from each mo	dule.
			Module-1	
1	1	a. b. c.	Define cyber security? Explain the motives of cyber attack. Use extended Euclidean algorithm to find inverse of 12 modulo 79? Apply Chineese reminder theorem to find square roots of 3 modulo 143 and list roots of -3 modulo 143.	(05 Marks) (05 Marks) all square (06 Marks)
			OR	
	2	a. b.	Explain DES construction in detail. Explain confusion and Diffusion with example. Explain three sounds SPN Network.	(05 Marks) (05 Marks) (06 Marks)
			Module-2	
	3	a. b. c.	Explain RSA operation in detail. Explain Public Key Cryptography Standards (PKCS) Explain Deffie Helman key exchange.	(06 Marks) (10 Marks)
	4	a. b.	OR If the RSA public key is (31, 3599) what is the corresponding private key. Explain Basic properties of hash function.	(05 Marks) (05 Marks)
		c.	Explain Birthday attack. Module-3	(06 Marks)
	5	a. b. c.	Explain identity based encryption. Explain Needham Schroeder protocol version – 1. Explain Kerberos with message sequence.	(05 Marks) (05 Marks) (06 Marks)
	6	a. b. c.	OR Explain password based one way authentication. Explain Needham – Schroeder protocol version – 2. Explain SSL Handshake protocol.	(05 Marks) (05 Marks) (06 Marks)
	7	a. b.	Module-4 Explain authentication and master session key exchange in 802.11i? Explain worm features. Explain Function of Firewall.	(05 Marks) (05 Marks) (06 Marks)
1	•		OR	
	8	a.	F. Mair 902 11; four way handshapka with next diagram	(05 Marks)

8 a. Explain 802.11i four way handshanke with neat diagram. (05 Marks)
b. List and explain practice issues of Firewall. (05 Marks)
c. Explain DDOS attack prevention and detection. (06 Marks)

1 of 2

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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)

OR

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)

2 of 2

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