YMCA UNIVERSITY OF SCIENCE & TECHNOLOGY, FARIDABAD B.TECH (CE), 7TH SEM EXAMINATION (UNDER CBS) SECURITY OF INFORMATION SYSTEMS (CE-403)



Time: 3 hrs	M. Marks: 60
Note: All questions in part-I are compulsory and attempt any fou	r in part-II.
PART-I Q. No. 1 (1) Differentiate between confusion and diffusion. (2) Explain the concept of Kirchoff's principle. (3) In the context of access control, what is the difference be subject and an object? (4) What is the difference between differential and linear crypt (5) Briefly describe AddRoundKey in AES. (6) What is triple encryption? (7) Write the participants in the SET protocol. (8) Differentiate between threat and vulnerability. (9) Explain the nature of inference threat to a RDBMS. (10) Explain how cookies can be misused to invade people's	otanalysis?
PART-II	(10 2 20)
Q.No. 2 (a) What are covert channels? Explain how storage and timi created?(b) Explain how secure E-mails can be sent? Explain how "r helps PGP to address key distribution problem.	(5)
Q.No. 3 (a) Given the plain text in hexadecimal {0123456789ABCDEF0123456789ABCDEF} and the ke {02020202020202020202020202020202020202	ginal contents of
 Q.No. 4 (a) What do you mean by virus signature? Explain how doe virus attach and spread itself? (b) What do you mean by security planning? Differentiate be copyrights and tradesecrets. 	(5)
Q.No. 5 (a) Decrypt the cipher text 10000001 using 8-bit DES havin K=11111111. (b) Discuss security features of trusted operating system. A two operating system security policies.	(5)
Q.No. 6 (a) Encrypt the following message using play fair matrix us "Gymnastic" Message > "Exercise is good for health"	sing key

Message-> " Exercise is good for health" (b) Write the X.509 structure of digital certificate.

(c) Discuss some of the attacks on the network security.

(4)(3)

Q.No. 7 Write short notes on following: (a) SSL Protocol

- (b) Guard firewalls
- (c) Kerberos authentication protocol (d) End to end encryption

(2.5*4)