



PART – B

(5 x 13 = 65 Marks)

Q.No.	Questions	Marks	KL	CO
11. a)	Explain various types of security attacks.	13	K1	CO1
	(OR)			
b)	List the different levels of losses that occur without CIA triad and briefly explain.	13	K1	CO1
12. a)	AES consists of four functions in three layers. Which of these layers and functions are primarily for confusion and which are primarily for diffusion? Justify your answer.	13	K3	CO2
	(OR)			
b)	Explain RSA algorithm. Perform encryption and decryption using RSA ( $p = 3, q = 11, e = 7, M = 5$ ).	5 + 8 = 13	K3	CO2
13. a)	Describe the differences between a host-based IDS and a network-based IDS. How can their advantages be combined into a single system?	8 + 5 = 13	K3	CO3
	(OR)			
b)	A PGP user may have multiple public keys so that a recipient knows which public key is being used by a sender. A key ID consisting of the least significant 64 bits of the public key is sent with the message. What is the probability that a user with N public keys will have at least one duplicate key ID?	13	K4	CO3
14. a)	Describe the classification of Social Engineering with examples.	13	K2	CO4
	(OR)			
b)	Explain in detail the Digital Forensics lifecycle.	13	K2	CO4
15. a)	Illustrate the fundamental concepts in privacy policies.	13	K2	CO5
	(OR)			
b)	Briefly explain privacy in the following domains:	6.5 +	K2	CO5
	• Health care	6.5 =		
	• Finance.	13		

PART – C

(1 x 15 = 15Marks)

Q.No.	Questions	Marks	KL	CO
16. a)	Explain how does screened host architectures for firewalls differ from screened subnet firewall architectures? Which of these offers more security for the information assets that remain on the entrusted network?	10 + 5 = 15	K2 K4	CO3
(OR)				
b)	The IPsec architecture document states that when two transport mode Security Association (SAs) are bundled to allow both AH and ESP protocols on the same end-to-end flow; only one ordering of security protocols seems appropriate: performing the ESP protocol before performing the AH protocol. Why is this approach recommended rather than authentication before encryption?	15	K4	CO3