Reg. No. :

Question Paper Code: 52R05	Question	Paper	Code:	52R05
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M.E. DEGREE EXAMINATION, NOV 2019

Second Semester

Computer Science and Engineering

15PCS205 – NETWORK SECURITY

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A $(5 \times 1 = 5 \text{ Marks})$

1.	Electronic Code Boo	ok is a kind of	-		CO1- R	
	(a) Stream cipher		(b) Block cipher			
	(c) Transposition cipher		(d) Asymmetric ciphe	er		
2.	2are very crucial for success of RSA algorithm.					
	(a) Integers	(b) Prime numbers	(c) Negative number ((d) Fraction		
3.	Which authenticatio	n method ensures auther	ntication using a secret sha	ared key?	CO3- R	
	(a) Windows Auther	ntication	(b) Preshared keys			
	(c) Kerberos v5		(d) Kerberos v5			
4.	The payment gatewa	ay sends back an	message to the mercl	hant.	CO4 -R	
	(a) Authorization res	sponse	(b) Request			
	(c) Acknowledgeme	nt	(d) No response			
5.	In, the vin into certain system a	rus places an identical oureas on the disk.	copy of itself into other p	orograms or	CO5- R	
	(a) Dormant phase	(b) Propagation phase	e (c) Triggering phase	(d) Executi	on phase	

PART – B (5 x 3=15 Marks)

6.	Encrypt 'do it at 10 pm' using rail fence chipher.			01 - U	
7.	List the requirements of a hash function.			02-U	
8.	Why is an outer IP header required in a tunnel mode IPSec communication?				
9.	How does TLS differ from SSL?			CO4-U	
10.	It is	CO	5-U		
		PART – C (5 x 16= 80 Marks)			
11.	(a)	Explain Blowfish algorithm with a neat diagram.	CO1- U	(16)	
		Or			
	(b)	Explain AES algorithm with neat diagrams.	CO1- U	(16)	
12.	(a)	Explain SHA -512 algorithm with a neat block diagram	CO2- U	(16)	
		Ur			
	(b)	Explain DSA algorithm with example.	CO2- U	(16)	
13.	(a)	A multinational company has off shore offices across the world with central office in India. Discuss the kinds of communication networks to be established between the offices. Explain the role of security associations for secured communications between them.	CO3-Ana	(16)	
		Or			
	(b)	Explain Key management mechanism in IPSec.	CO3-Ana	(16)	
14.	(a)	Explain SET protocol in detail with various components. Or	CO4 -U	(16)	
	(b)	Explain the creation and verification of dual signature with neat diagrams.	CO4 -U	(16)	
15.	(a)	Explain the different types of viruses and countermeasures in detail.	CO5-U	(16)	
		Or			
	(b)	Discuss intrusion detection methods in detail.	CO5-U	(16)	