Paper / Subject Code: 32422 / Computer Network Security

13/11/2024 IT SEM-V C SCHEME CNS QP CODE: 10064504

(Time	:: 3 hours) (To	tal Marks: 80
INST	RUCTIONS	45/2 (76)
	iestion 1 is compulsory.	
	tempt any three from the remaining questions. Taw neat diagrams wherever necessary.	167
(3) DI	aw neat diagrams wherever necessary.	50 26
		S. C.
Q1 a)	Enlist security goals. Discuss their significance	(5)
b)	Compare and contrast DES and AES.	(5)
c)	Explain the purpose of keylogger and rootkit	(5)
d)	SHA provides better security than MD5 Justify	(5)
Q2 a)	Encrypt "This is the final exam" with Play fair cipher, the key is 'Guidanc	e' (10)
u)	Energy Tims is the final exam with They full explicit, the key is Guidante	(10)
b)	What is the significance of a digital signature on a certificate ?Justify	(10)
Q3		
(a)	How does IPSec help to achieve authentication and confidentiality?Justify AH and ESP	the need of (10)
b)	What Is PKI. Explain PKI architecture in detail	(10)
Q4		
a)	Show how a Kerberos protocol can be used to achieve single sign on in d systems	istributed (10)
b)	What is network access control? Discuss the elements present in this cont	
Q5		
a)	Explain different types of denial of service attacks	(10)
b)	Explain network management security with respect to SNMP protocol	(10)
Q6		
a)	Explain different methods of IDS? State capabilities and challenges in ID	S (10)
b)	Explain transposition ciphers with illustrative examples	(10)

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