Paper / Subject Code: 37472 / Cryptography and System Security
May 17, 2024 02:30 pm - 05:30 pm 1T01876 - T.E. Computer Science and Engineering
(Artificial Intelligence and Machine Learning) (Choice Based) (R-19- 'C'
Scheme)SEMESTER - VI / 37472 - Cryptography and System Security QP CODE:
10055343
Time: 3 Hrs Marks: 80.

Note:

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1.	Question	1	12	compu	1501 y.

2. Attempt any 3 questions out of the remaining questions.

Q1. Attempt any Four.

a.	Define the security Mechanisms and attacks for OSI security architecture.	05	
b.	List various types of security that are applied on database.	05	
c.	Define wed security. Explain the role of cookies.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
d.	Explain the different types of firewalls and layer in which it operate.	05	
e.	Explain the different modes of block ciphers.	05	
f. 🔬	Differentiate between Digital signature and digital certificate.	05	
Q2.	SELECT ALBERT SELECT ALBERT SELECT		
	Explain various authentication protocols detail.	10	
b.	List and explain in detail security features of operating system.	10	
Q3.	155 188 CLAST CAST CAST CAST CAST CAST CAST CAST C	19	
a.	Explain the role of SSH. What is the difference between HTTP and HTTPS?	10	
	List different poly-alphabetic substitution ciphers. Use Hill cipher to encrypt	10	
	the text "short". The key to be used is "hill".	10	
5	the text short. The key to be discuss him.	10	
Q4.			
λ_{r}			
	Define digital signature.		
	P =7 and Q=17 are two prime numbers. If E=5 as public key,		
	find the cipher text for 5. Also decrypt the cipher text back to get plain text.	10	
b .	Explain MD-5 hash function. Compare with SHA 256.	10	
Q5.	A SERVICE ASSESSED FOR THE SERVICE ASSESSED FO		
a.	Explain Penetration testing in detail.	10	
The second second	Explain Needham Schroeder Authentication protocol.	10	
GE T	Explain reconain semocael radication protocol.	10	
8			
Q6.	Attempt any Four.		
		10	
(6)	List and explain security requirements of a website	10	
b .	b. Explain DES algorithms in detail.		

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