Whom we come

Paper / Subject Code: 89282 / Cryptography & System Security

Dura	tion: 3Hours [Max Marks :	80]
	AS AST ST	···
N.B :	(1) Question No 1 is Compulsory.	S
	(2) Attempt any three questions out of the remaining five.	And In
	(3) All questions carry equal marks (4) Assume suitable data if required and state it clearly	
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1	Attempt any FOUR	[20]
a	Explain Euclidean Algorithm.	25
b	Explain RC4 stream cipher.	
c	Differentiate between SHA-1 and MD5	January .
d	Explain worms and viruses	Variable of the second
e	Discuss RSA as a digital signature algorithm	>
2 a	Explain Diffie Hellman key agreement algorithm. Also discuss the possible attacks on it. Consider the example where A and B decide to use the Diffie Hellman algorithm to share a key. They choose p=23 and g=5 as the public parameters. Their secret keys are 6 and 15 respectively. Compute the secret key that they share Explain Advanced Encrypted Standards (AES) in detail.	[10]
3 a	Explain cryptographic hash functions with properties of secure hash function.	[10]
b	What is ICMP flood attack? Explain in detail.	[10]
4 a	Explain Public Key Distribution in detail.	[10]
p p	Encrypt the string "The Key is hidden under the door" with Play fair cipher using the keyword "domestic".	[10]
5 a	What are the different components of IDS? List and explain different approaches	[10]
b	of IDS. Explain Needham-schroeder authentication protocol.	[10]
6 a	Write a short note on 1. Packet Sniffing.	[10]
ha	2 ARP spoofing. Discuss various attacks on Digital signatures.	[10]

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