

Mun	/IBAI UNIVERSITY	Y NETWORK SECURITY B.SC.IT	
	UESTION PAPER	(OCTOBER – 2013   60:40 PATTERN) (SEMESTER –	V)
Time:     2 ½ Hours       Total Marks			arks: 60
<ul> <li>N.B.: (1) All Question are Compulsory.</li> <li>(2) Make Suitable Assumptions Wherever Necessary And State The Assumptions Made.</li> <li>(3) Answer To The Same Question Must Be Written Together.</li> <li>(4) Number To The Right Indicates Marks.</li> <li>(5) Draw Neat Labeled Diagrams Wherever Necessary.</li> <li>(6) Use of Non – Programmable Calculator is allowed.</li> </ul>			
Q.1	ATTEMPT ANY	Two Questions: (10 Marks)	
(A) (B)	Explain the conc Define the follo (i) Cryptogra (ii) Cryptanal (iii) Brute-Ford	ncept of Key Range and Key Size. <u>owing terms:</u> aphy lysis rce Attack	(5) (5)
(C) (D)	(v) Asymmetri What are Trans	ic Key Cryptography cric Key Cryptography sposition Techniques? Explain any one with the help of an example. cthical and Legal Issues in Computer Security System?	(5) (5)
Q.2	ATTEMPT ANY	Two Questions: (10 Marks)	
(A) (B) (C) (D)	Explain the Ciph Explain Blowfish Explain the step	her Block Chaining Mode of the Algorithm in detail. h Algorithm and its advantages. ps in each round of DES. in features of AES, explain its steps at a high level.	(5) (5) (5) (5)
Q.3	ATTEMPT ANY	Two Questions: (10 Marks)	
(A)		sics of Digital Signature.	(5)
(B)	Explain the con	ncept of Message Digest. What are the requirements of the Message Digest?	(5)
(C) (D)	Explain the seco	nnot be trusted to be used in Digital Signatures? curity solution based on the concept of Digital Envelope. Explain the security solutior oncept of Digital Envelope.	(5) n (5)
Q.4	ATTEMPT <u>ANY</u>	Two Questions: (10 Marks)	
(A)		Certificate? How is it created?	(5)
(B)	Write a brief no	ote on Cross Certification in Digital Certificates.	(5)
(C)		(Certificate Revocation Lists)? How are they used?	(5) (5)
(D)	Write a briet no	ote on PKCS#5 Password Based Encryption (PBE) Standard.	(5)
Q.5	ATTEMPT ANY	Two Questions: (10 Marks)	
(A)	Explain the fund	ctioning of Packet Filter Firewall. Explain the possible attacks on it.	(5)
(B)	•	vantages and applications of IPSec.	(5)
(C) (D)		ncept of Dual Signature in SET (Secure Electronic Transaction). Explain how PGP works.	(5) (5)
Q.6	ATTEMPT ANY	Two Questions: (10 Marks)	
(A)	Explain Authent	tication Method based on Challenge/Response Tokens.	(5)
(B)		ificate Based Authentication work?	(5)
(C) (D)		ote on Kerberos. nt approaches of Mutual Authentication.	(5) (5)
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