B.E. Sem VII CBSGS Computer Enga Cryptography & System Security (Time: 3hrs) 19/5/2016 11 am to 2 pm

QP Code: 31296

(Marks 80)

1. Question No 1 is compulsory.

2. Attempt any three out of the remaining five questions.

Q1. (a) Explain software flaws with examples	05
(b) List with examples the different mechanisms to achieve security	05
(b) Explain with examples, keyed and keyless transposition ciphers	05
(c) Elaborate the steps of key generation using RSA algorithm	05
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Q2. (a) A and B decide to use Diffie Hellman algorithm to share a key. They chose p=23 and g=5 as the public parameters. Their secret keys are 6 and 15	10
respectively. Compute the secret key that they share.	10
(b) Explain working of DES.	
Q3. (a) What is access control? How does the Bell La Padula model achieve access	10
control.	10
Q3. (b) What is a digital signature. Explain any digital signature algorithm in detail.	10
Q4. (a) Compare packet sniffing and packet spoofing. Explain session hijacking	.)
attack.	10
attack.	
Q4. (b) Explain working of Kerberos.	10
Q5. (a) What is a firewall? What are the firewall design principles?	05
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Q5: (b) What are the various ways for memory and address protection,	05
Q5. (c) Explain the significance of an Intrusion Detection System for securing a	10
network. Compare signature based and anomaly based IDS.	10
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Q6. Write in brief about (any four):	20
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i) Email Security.	
i) Email Security. ii) SSL handshake protocol	
ii) SSL handshake protocol iii) IPSec protocols for security	
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