

CSE803 - Computer System Security

P. Pages : 2

Time : Three Hours



GUG/W/16/7031

Max. Marks : 80

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- Notes :
1. All questions carry equal marks.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.

1. a) Explain different security attacks & security services. **8**
b) Discuss how the intruder generates an attack in TCP session. **8**

OR

2. a) What are ARP Attacks? **4**
b) Explain internet standards & RFC's. **4**
c) Explain buffer overflow and format string vulnerabilities. **8**
3. a) Give the principles for conventional encryption. **8**
b) Explain cipher blocks modes of operations. **8**

OR

4. a) Write and explain DES encryption algorithm. **8**
b) Explain location of encryption devices. **8**
5. a) Discuss public key cryptography principles. **8**
b) Explain Digital signature & Digital certificates. **8**

OR

6. a) Explain public key cryptography algorithm. **8**
b) Explain certificate authority and key management Kerberos. **8**
7. a) Draw and explain IP security architecture. **8**
b) Explain web security requirements. **8**

OR

8. a) Write short notes on: 16
- i) Pretty good privacy.
 - ii) Secure electronic transaction.
 - iii) S/MIME.
 - iv) Encapsulating security pay load.
9. a) Explain Intruder detection system. 8
- b) Discuss intruders, viruses & related threats. 8

OR

10. a) Explain the following. 16
- i) SNMP.
 - ii) Trusted system.
