

B.E. Computer Science & Engineering (Model Curriculum) Semester-VIII
BE201CS - Computer System Security

P. Pages : 2

Time : Three Hours



GUG/W/24/14339

Max. Marks : 80

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

1. a) Explain various types of Security attacks. 8
- b) Write note on: 8
- i) ARP attack ii) IP Spoofing

OR

2. a) Explain buffer overflow and format string vulnerabilities. 8
- b) Write note on: 8
- i) TCP hijacking ii) UDP hijacking
3. a) Discuss in detail HMAC Algorithm. 8
- b) Explain internet standard and RFC's. 8

OR

4. a) Explain in detail DES Algorithm. 8
- b) Explain Rail-fence transposition technique? What would be the transformation of message "COMPUTER SYSTEM SECURITY" using Rail-fence technique with rail value = 3. 8
5. Write note on: 16
- i) Public announcement ii) Public Key Authority
- iii) Public Key Directory iv) Certificate authority

OR

6. a) Explain Public Key Cryptography Algorithm. 8
- b) Discuss Digital Signatures in detail. 8

7. a) Discuss IP Sec in detail. 8
- b) Write note on: 8
- i) PGP ii) SET

OR

8. a) What are web security requirements? Explain. 8
- b) Discuss Email privacy in detail. 8
9. a) Write a note on following malicious programs. 8
- i) Logic Bomb
- ii) Trojan Horse
- b) Discuss Firewall Design Principles. Explain in detail. 8

OR

10. a) What is Intruder? Classify their classes and discuss intrusion detection technique. 8
- b) Explain in detail basic concepts of SNMP. 8
