

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

P. Pages : 2

Time : Three Hours



GUG/S/23/14339

Max. Marks : 80

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

1. Explain following transposition technique with suitable example. 16
- i) Rail-fence technique
- ii) Simple columnar technique

OR

2. a) Explain in brief all types of network security services. 8
- b) Write note on:- 8
- i) Denial of service attack
- ii) Man-in-middle attack

3. What is an AES algorithm? Explain with diagram. 16

OR

4. a) Write note on:- 8
- i) CFB ii) OFB
- b) Explain working of international data encryption algorithm (IDEA) in detail. 8
5. a) Explain in detail MD5 algorithm. 8
- b) Explain digital signature in detail. 8

OR

6. a) Discuss in detail, the concept of Kerberos. 8
- b) Explain Public Key cryptography algorithm in detail. 8
7. Write note on: 16
- i) SET ii) PGP

OR

8. a) Discuss Email privacy in detail. 8
- b) Discuss pretty good privacy in detail. 8
9. a) Write a note on following malicious programs. 8
- i) Logic Bomb
- ii) Trojan Horse
- b) What are the firewall design principles. Explain in detail. 8

OR

10. a) Define virus. Explain different types of viruses differentiate between virus & worms. 8
- b) What is intruder? Classify their classes and discuss intrusion detection techniques. 8
