

Roll No

CS-7101 (GS)
B.E. VII Semester
 Examination, December 2017
Grading System (GS)
Network and Web Security

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.
 ii) All questions carry equal marks.

1. a) What is Intruder? Explain three classes of intruders. 7
 b) Explain statistical anomaly and Rule-Based detection technique of intrusion detection. 7
2. a) Give a suitable classification of different types of security attacks. 7
 b) What do you mean by penetration testing? Give types of penetration testing. 7
3. a) Explain the concept of Cryptanalysis and Brute force attack. 7
 b) With the help of a suitable diagram explain the principle of Public Key Cryptography. 7
4. a) What are classical encryption techniques? Explain them with suitable examples. 7

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- b) With the help of a block diagram explain DES encryption algorithm. 7
5. a) Briefly explain Diffie-Hellman key exchange. What is a public certificate. 7
 b) What are Kerberos? Write the working principle of Kerberos. 7
6. a) What are some threats associated with a direct digital signature scheme? Explain them. 7
 b) Explain Man-in-Middle, Phishing and Ransom ware attacks. 7
7. a) What are typical phases of operation of a virus or worm? 7
 b) Differentiate the followings: 7
 i) Spoofing Vs Hijacking
 ii) Black hats Vs White hats Hackers
8. Write short notes on any two. 14
 a) Design principles of firewalls
 b) DoS attack
 c) Trojans
 d) SQL injection attack

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