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Q.P. Code: 8720

CS 7 SEM SYSTEM SECURITY JUN 2015

| | | (3 Hours) [Total Marks: | 100 |
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| N.B | (| Question No. I is compulsory. Solve any Four questions from the remaining Six questions. Assume suitable data wherever necessary and mention the same. | |
| 1. | (a) (b) (c) (d) | Distinguish between substitution cipher and transposition cipher. What are different types of malicious codes. What are the different types of IP - Spoofing. Differentiate between - vulnerability, threats and controls. | 5 5 5 5 |
| 2. | (a) | A and B decide to use Diffie-Hellman key exchange where p=13, g=2. Each choose his own secret no. and exchange nos. 6 and 11. (i) What is common secret key? (ii) What are their secret nos? (iii) Can intruder M, gain any knowledge from protocol run if he sees p, g and the 2 public keys 6 & 11. If yes, show how? | 10 |
| | (b) | Explain structure of DES. | 10 |
| 3. | (a) (b) | Describe block ciphers? Explain any one with example. a2zSubjects.com Explain difference between MAC and message digest? What is role of compression function in general structure of message digest? | 10 10 |
| 4. | (a) (b) | What is Reverse Engineering? Explain need of Digital Rights Management. What is Buffer overflow and incomplete mediation in Software Security? | 10 10 |
| 5. | (a) (b) | How does ESP header gearantee confidentiality & integrity for packet payload? What makes a network vulnerable? | 10 10 |
| 6. | (a) (b) | What are different types of firewalls? Explain design, configuration and limitations. IPSec offers security at network layer. What is the need of SSL? Explain the services of SSL protocol? a2zSubjects.com | 10 10 |
| | Writ (a) (b) (c) (d) | e Short note on (any TWO) MD3. Covert Chanel. CAPCHA. Trojan. | 20 |
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