

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIFTH SEMESTER – NOVEMBER 2018

16PCA5MC01 – NETWORK SECURITY

Date: 25-10-2018

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

Part – A

Answer ALL Questions

(10 * 2 = 20 Marks)

1. Comment on Masquerade.
2. What is Reconnaissance?
3. Define Brute-force attack.
4. What are the two basic functions used in encryption algorithms?
5. What are the properties a digital signature should have?
6. Define Stream cipher.
7. What are the Authentication functions?
8. Define Public key infrastructure.
9. What are the features of Oakley?
10. Define Web security threats.

Part – B

Answer ALL Questions

(5 * 8 = 40 Marks)

11. a) Explain the model for Network security.
(or)
b) List and explain categories of security services.
12. a) Briefly explain Caesar cipher.
(or)
b) Write short notes on 3DES.
13. a) Explain Public-key cryptography.
(or)
b) Explain the different Authentication requirements.
14. a) Explain Pretty Good Privacy services.
(or)
b) Illustrate Secure Socket Layer architecture.
15. a) Describe all the types of Firewalls.
(or)
b) Explain Security Association and Encapsulating Security Payload protocols.

Part – C

Answer any TWO Questions

(2 * 20 = 40 Marks)

16. a. Discuss the different Security mechanisms
 - b. Explain about Playfair cipher with example.
17. a. Discuss Diffie-Hellman Key Exchange in detail
 - b. Explain Kerberos authentication services in detail.
18. a. Write about various ISAKMP formats in detail.
 - b. Explain Transport Layer Security in detail

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