Code : 15CS62T

Register Number

VI Semester Diploma Examination, April/May-2018

NETWORK SECURITY AND MANAGEMENT

Time : 3 Hours]

[Max. Marks : 100

Note : (i) Answer any **six** questions from Part – **A**.

(ii) Answer any **seven** full questions from Part – **B**.

PART – A

Answer any **six** questions. Each carries **5** marks.

1. Explain in detail various security attacks. 5

2. Explain essential ingredients of a symmetric cipher with a neat diagram. 5

3. Explain CBC mode operations with neat diagram. 5

4. List design objectives of HMAC. 5

5. Explain Pretty Good Privacy (PGP). 5

6. Define IDS. List the functions performed by IDS. 5

7. Mention the limitations of firewall. 5

8. List the parameters of SSL session state. 5

9. Describe Information Technology (IT) Act 2000. 5

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PART – B

Answer any **seven** full questions. Each carries **10** marks.

10. Explain with a neat diagram Feistel Cipher structure and its design elements. **10**

11. Explain RSA public key encryption algorithm with an example. **10**

12. Explain Virtual Private Network (VPN) and its types with a neat diagram. **10**

13. Write a note on :
    (a) Proxy firewall
    (b) Personal firewall **10**

14. Explain in detail malicious software and its types. **10**

15. List and explain various WLAN configurations. **10**

16. Explain with diagram WAP protocol architecture. **10**

17. Describe SSL record protocol with a neat diagram. **10**

18. Explain flow of transaction in SET with a diagram. **10**

19. Explain how an e-mail system works with a diagram. **10**