



C14—CM-606/C14-IT-606

4734

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2018

DCME—SIXTH SEMESTER EXAMINATION

CRYPTOGRAPHY AND NETWORK SECURITY

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Define cryptography.
2. List the categories of active attacks.
3. Define encryption.
4. Define monoalphabetic cipher.
5. Define steganography.
6. List the requirements of digital signature.
7. List the roles of public and private keys.
8. Define worm.

* 9. List some of malicious softwares.

10. What is cyber crime?

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. Draw network security model and explain.

12. (a) Explain about security goals. 5

(b) Explain Caesar cipher with an example. 5

13. Explain play fair cipher with an example.

14. (a) Explain one-time pad with an example. 5

(b) Explain the problems with one-time pad. 5

15. Explain about message authentication code.

16. Explain about cryptographic hash function.

* 17. Explain about antivirus approaches.

18. Define firewall and explain about the characteristics of firewall.
