



C14-CM-606/C14-IT-606

4734

**BOARD DIPLOMA EXAMINATION, (C-14)**  
**MARCH/APRIL—2018**  
**DCME—SIXTH SEMESTER EXAMINATION**  
**CRYPTOGRAPHY AND NETWORK SECURITY**

Time : 3 hours ]

[ Total Marks : 80

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**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. List the security goals.
2. List any three categories of security mechanisms.
3. Define steganography.
4. Define cipher text.
5. List the functions used in encryption algorithm.
6. List the applications of cryptographic hash functions.
7. Define message authentication.

- \* 8. Define intruder.
- 9. List any three antivirus softwares.
- 10. List the types of firewalls.

**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. Explain the categories of security services.
- 12. (a) Explain about passive attacks. 5  
(b) Explain transposition cipher with an example. 5
- 13. Explain general approaches to attack cipher.
- 14. Explain hill cipher with an example.
- 15. Define digital signature and explain the properties of digital signature. 2+8=10
- 16. Explain message authentication requirements.
- \* 17. Explain about virus, virus nature and virus classification.
- 18. Explain about digital rights management.

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