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BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL-2019
DCME – SIXTH SEMESTER EXAMINATION

CRYPTOGRAPHY AND NET WORK SECURITY

Time:3hours   Max.Marks:80M

PART-A

10x3=30

Instructions: 1) Answer **all** questions Each question carries **3** marks
2) Answer should be brief and straight to the point and shall not exceed five simple sentences.

1)   What is the need of Network Security?

2)   Define a) Cryptanalysis   b)Cryptology.

3)   What is Brute force attack?

4)   Define Transpositon cipher.

5)   What is the cipher for CRYPTOGRAPHY using Caesar cipher?

Take n=3 (where 'n' is the three places forward in alphabet).

6)   List any three Message authentication requirements.

7)   Differentiate between Hash function and Cryptographic Hash function?

8)   Define Virus and write the full form of VIRUS.

9)   Write about E - mail virus.

10)   List any three basic conditions that must fulfill to claim a copyright.

PART - B

Instructions: 1) Answer any **five** questions Each questioncarries**10**marks

                 2) Answer should comprehensive and they criterion for valuation is the content but not length of the Answer.

11) a) Write about the categories of Security services.   6M

       b) Explain the terms confidenfiality and integrity w.r.t data .   4M

12) a) Explain the model for Network security with diagram.

       b) What would be the transformation of a massage "HAPPY BIRTH DAY TO YOU "using Rail fence technique?

13) Explain the concept of Hill cipher with suitable example.

14) Explain about

       a) Mono alphabetic cipher   b) Poly alphabetic cipher.

15) Explain Message Authentication requiremnts.

16) a) List the Digitall signature requirements.

       b) List the applications of Crypltographic Hash functions.

17) Explain the procedure how a Worm propagates.

18) Explain the classification of computer crime based on the role that the computer plays in the criminal activity.

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