M.Sc. DEGREE EXAMINATION,NOVEMBER 2018
II Year III Semester
Core Elective -IV
CRYPTOGRAPHY

Time : 3 Hours **Max.marks :75**

Section A $(10 \times 2 = 20)$ Marks

Answer any **TEN** questions

1. What is encryption?
2. Differentiate substitution and transposition ciphers.
3. State Euler's Theorem.
4. Define the Chinese Remainder Theorem.
5. What is public key cryptography?
6. What is man in the middle attack?
7. What is a Hash Fucntion ? Why it is used?
8. State the importance of authentication.
9. What are credentials?
10. Expand MAC.
11. What is a brute force attack?
12. What is cryptanalysis?

Section B $(5 \times 5 = 25)$ Marks

Answer any **FIVE** questions

13. Explain the model of encryption, with appropriate diagram.
14. Discuss about Testing for primality.
15. Elaborate on Diffie-Hellman Key Exchange.
16. Discuss about Message Authentication Codes.
17. Discuss about authentication.
18. Explain about Transposition ciphers.
19. Discuss about DES algorithm.

Section C $(3 \times 10 = 30)$ Marks

Answer any **THREE** questions

20. Discuss about AES algorithm in detail.
21. Explain about Euclidean Algorithm.
22. Discuss about RSA algorithm in detail.
23. Explain the Secure Hash Algorithm.
24. Discuss about Digital Signatures in detail.

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