M.Sc. DEGREE EXAMINATION,NOVEMBER 2019
II Year III Semester
Cryptography and Network Security

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

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

Answer any **TEN** questions

1. What is integrity? What are its types?
2. State the main objectives of security?
3. Differentiate Plain and Cipher text.
4. What is PRNG?
5. State Euler's Theorem.
6. What is Primality Testing?
7. What is a Digital Signature?
8. Differentiate Public and Private Key.
9. What is Man-in-the –middle attack?
10. What is a Cryptographic hash function?
11. What is Cryptanalysis?
12. What is a Substitution Cipher?

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

Answer any **FIVE** questions

13. Discuss about the model of encryption.
14. Explain about DES.
15. Explain the Chinese Remainder Theorem.
16. Discuss the principles of Public Key Cryptography.
17. Discuss about Diffie-Hellman-Key Exchange.
18. Elaborate on MAC.
19. Explain about any one Substitution Technique.

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

Answer any **THREE** questions

20. Discuss in detail about Transposition Technique.
21. Explain AES algorithm in detail.
22. Discuss about the Euclidian Algorithm.
23. Elaborate on the RSA Algorithm.
24. Explain Secure Hash Algorithm (SHA)

M.Sc. DEGREE EXAMINATION,NOVEMBER 2019
II Year III Semester
Cryptography and Network Security

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

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

Answer any **TEN** questions

1. What is integrity? What are its types?
2. State the main objectives of security?
3. Differentiate Plain and Cipher text.
4. What is PRNG?
5. State Euler's Theorem.
6. What is Primality Testing?
7. What is a Digital Signature?
8. Differentiate Public and Private Key.
9. What is Man-in-the –middle attack?
10. What is a Cryptographic hash function?
11. What is Cryptanalysis?
12. What is a Substitution Cipher?

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

Answer any **FIVE** questions

13. Discuss about the model of encryption.
14. Explain about DES.
15. Explain the Chinese Remainder Theorem.
16. Discuss the principles of Public Key Cryptography.
17. Discuss about Diffie-Hellman-Key Exchange.
18. Elaborate on MAC.
19. Explain about any one Substitution Technique.

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

Answer any **THREE** questions

20. Discuss in detail about Transposition Technique.
21. Explain AES algorithm in detail.
22. Discuss about the Euclidian Algorithm.
23. Elaborate on the RSA Algorithm.
24. Explain Secure Hash Algorithm (SHA)