

SE – 438

VI Semester B.Voc. Examination, September 2020  
(CBCS) (2018-19 and Onwards)  
(Repeaters)  
INFORMATION TECHNOLOGY  
Paper – 603 : Cryptography and Network Security

Time : 3 Hours

Max. Marks : 70

*Instruction : Answer all the Sections.*

SECTION – A

Answer **any ten** questions. Each question carries **two** marks.

(10×2=20)

1. What is steganography ?
2. What is cryptography ?
3. What is the block size of MD5 ?
4. Classify different security mechanism.
5. Write a brief note on access control.
6. Define integrity and non-repudiation.
7. Define crypt analysis.
8. What is data integrity ?
9. Define cipher text with an example.
10. What is Brute force attack ?
11. Define S/MIME.
12. Define message padding.

SECTION – B

Answer **any five** questions. Each question carries **ten** marks.

(5×10=50)

13. a) Find the GCD of (2790, 1700) using Euclidian algorithm.
- b) Define transposition cipher, with an example.

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P.T.O.



- 14. a) With neat diagram, explain the general structure of DES. 5
- b) Compare SSL and TLS protocols. 5
- 15. a) Write a note on PGP services. 5
- b) Explain Tunnel mode of IP sec. 5
- 16. a) Explain the model of conventional ecosystem. 5
- b) Explain shift ROW transformation. 5
- 17. a) Explain the four stages of AES algorithm. 5
- b) Draw the block diagram of DES algorithm, explain briefly. 5
- 18. a) Explain RSA algorithm with an example. 5
- b) Explain Fermat's theorem of primality test. 5
- 19. a) Explain cipher feedback mode. 5
- b) Explain min column transformation. 5
- 20. a) Explain X 509 certificate. 5
- b) Write a short note on whirlpool hash function. 5

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