

Roll No :

Total No. of Questions : 10]

[Total No. of Printed Pages : 2

BC-399

B.C.A. (Part-III) Examination, 2021

NETWORK SECURITY

Paper - BCA-303

(For Due)

(For Old Scheme Students)

Time : 1½ Hours]

[Maximum Marks : 50

Note :- Attempt *five* questions in all, selecting *one* question from each Unit. All questions carry equal marks.

Unit-I

1. (a) Explain need of security and security approaches.
- (b) Differentiate encryption and decryption with example. 5,5

Or

2. (a) What do you understand by Cryptography ?
- (b) Differentiate Cipher text and Plain text with example. 5,5

Unit-II

3. What is symmetric key ? Explain DES in detail. 10

Or

4. What do you understand by IDEA and AES ? Explain in detail. 10

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Unit-III

5. What is Asymmetric key operation ? Explain RSA algorithm in detail. 10

Or

6. Explain digital signature, its requirement and techniques. 10

Unit-IV

7. What is PKI Model ? Explain also PKCS. 10

Or

8. Explain SSL, SHTTP and TSP in detail. 10

Unit-V

9. Write short notes on the following :

(a) Passwords Authentication Tokens and Certificate based Authentication.

(b) Biometric Authentication and Kerberos. 5,5

Or

10. Explain the following terms :

(a) TCP/IP

(b) Firewalls

(c) VPN

(d) IP Security

2½×4=10