A   (Printed Pages 4)

(20620)   Roll No. ....

BCA-VI Sem.

18026 (CV)

B.C.A. Examination, June-2020

COMPUTER NETWORK SECURITY

(BCA-601)

(NEW)

Time : Two Hours | |Maximum Marks : 75

Note : Attempt all the sections as per instructions.

Section - A

(Very Short Answer Type Questions)

Note: Attempt **any four** questions. Each question carries 3.75 marks.

$$4 \times 3.75 = 15$$

1. What is the need of security in network communication?

2. Explain various types of viruses.

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3. What is Key distribution? How can it be achieved?

4. What are the benefits and services provided by IP Sec?

5. What is digital signature?

Section - B

(Short Answer Type Questions)

Note : Attempt any **one** question. Each question carries 15 marks.

$$1 \times 15 = 15$$

6. What is the need of Authentication? Explain various Authentication functions.

7. What is Intrusion Detection? Write some measures used for Intrusion Detection.

8. What is Cryptanalysis? Explain various types of cryptanalysis with an example.

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Section - C

(Long Answer Type Questions)

Note : Attempt any **two** questions. Each question carries 22.5 marks.

$$2 \times 22.5 = 45$$

9. (a) Explain RSA Public Key Encryption. In a RSA system the public key of a given user is d= 7 and n= 33. What is the private key of this user?

(b) Describe the technical deficiencies of Kerberos V4 over V5.

10. Discuss various types of Firewalls at different layers on TCP/IP stack along with their advantages and disadvantages.

11. (a) What do you understand by Cryptography? List the various cryptographic with the suitable illustrations.

(b) Explain Secure Electronic Transa-ction.

12. Explain in detail Network Security Architecture.

13. Write short notes on :

(a) Secure Socket Layer

(b) SNMP

(c) X.509 certificate