(2)

(2062A)

Roll No.

BCA: VI Sem.

## 18026

# B.C.A. Examination, June-2023 COMPUTER NETWORK SECURITY (BCA-601)

Time: 3 Hours | [Maximum Marks: 75]

Note: Attempt questions from all the sections as per instructions.

#### Section A

# (Very Short Answer Questions)

Note: Attempt all questions. Each questions carries 3 marks. Very short answer is required.

5×3=15

- 1. Differentiate Encryption and Decryption. 3
- 2. Write down the principles of Security. 3
- 3. Explain various types of viruses.
- 4. What is Digital Signature?
- Name four factors needed for a secure network. 3

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#### Section-B

### (Short Answer Questions)

Note: Attempt any two questions out of the following three questions. Each question carries 7.5 marks.

- What is firewall? Describe how firewall can be used to protect the network.
  7.5
- Explain SSL protocol. List the services provided by SSL record protocol.
   7.5
- What is Intrusion Detection? Write some measures used for Intrusion Detection.
  7.5

#### Section-C

### (Long Answer Questions)

Note: Attempt any three questions out of the following five questions. Each question carries 15 marks. Answer is required in detail.

- Discuss RSA Algorithm with a suitable example. 15
- 10. What is the purpose of X.509 standard? How is an X.509 certificate revoked?

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 Discuss different cryptographic Algorithms used in S/MIME. Explain how S/MIME is better than MIME.

15

- 12 (a) Explain the role of digital Signatures in the Modern Communication. 10
  - (b) Explain briefly about SNMPV3. 5
- 13. Write short notes on any three:  $3 \times 5 = 15$ 
  - (a) Kerveros
  - (b) YPN
  - (c) SET
  - (d) PGP