

Total No. of Questions : 5]

SEAT No. :

PA-1024

[Total No. of Pages : 2

[5902]-52

T.Y. B.Sc (Computer Science)

COMPUTER NETWORKS - II

(2019 Pattern) (Semester - V) (CS-352)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) Attempt all questions.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figurers to the right indicate full marks.
- 4) Assume suitable data if necessary.

Q1) Attempt any EIGHT of the following (out of TEN)

[8 × 1 = 8]

- a) What is PrimaryServer?
- b) Write services provide by user agents, and explain composing message?
- c) Define Jitter and Translation.
- d) What is sampling?
- e) Define cryptanalysis.
- f) What is S-box component of a modern block cipher?
- g) Write name of steps perform in each round of DES (Data Encryption Standard) Cipher.
- h) What is the purpose of IPSec?
- i) Write name of protocols on which IKE (Internet Key Exchange) is based.
- j) A proxy firewall is also called application gateway. Write true or false and also justify.

P.T.O.

Q2) Attempt any FOUR of the following (out of FIVE) [4 × 2 = 8]

- a) What is firewall? Explain with diagram.
- b) What is streaming audio/video? Also write examples.
- c) Write information about iterative resolution, with diagram.
- d) What is anonymous FTP?
- e) What is Digital Signature?

Q3) Attempt any TWO of the following (out of THREE) [2 × 4 = 8]

- a) Explain security services for message.
- b) Explain streaming stored audio/video Third Approach: Using a media server.
- c) Explain any four user agent services.

Q4) Attempt any TWO of the following (out of THREE) [2 × 4 = 8]

- a) What is IMAP4? Write it's features, advantages and disadvantages.
- b) Explain asymmetric key cryptography with the help of diagram.
- c) Explain in detail packet filter firewall, also write it's advantages and disadvantages.

Q5) Attempt any ONE of the following (out of TWO) [1 × 3 = 3]

- a) Using columnar transposition cipher, convert following plaintext to ciphertext. 'allthepacketsfromporttenareallowed', key="COMPUTER"
- b) Write note on Real-Time Transport protocol (RTP).

