

Total No. of Questions : 5]

SEAT No. :

P-6391

[Total No. of Pages : 2

[6155]-52

T.Y. B.Sc. (Computer Science)

CS - 352 : COMPUTER NETWORKS - II

(2019 Pattern) (CBCS) (Semester - V)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates :

- 1) All questions are compulsory.
- 2) Draw neat and labelled diagrams wherever necessary.
- 3) Use of calculators is not allowed.

Q1) Attempt any EIGHT of the following (Out of TEN).

[8 × 1 = 8]

- a) What is Jitter?
- b) Name the two parts of Email?
- c) Why MIME protocol is required?
- d) List the types of MPEG frames.
- e) What is frequency masking?
- f) What do you mean by Proxy firewall?
- g) What do you mean by cryptography and cryptoanalysis?
- h) List the PGP services.
- i) What is the difference between plaintext and cipher text?
- j) List the services of user agent.

Q2) Attempt any FOUR of the following (Out of FIVE).

[4 × 2 = 8]

- a) Explain VPN in detail with example.
- b) Distinguish between message integrity and message authentication.
- c) What is firewall? Explain its types.
- d) Write a short note on message access agent: IMAP & POP.
- e) Explain in detail use of FTP and HTTP.

P.T.O.

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

- a) Write a short note on DNS.
- b) Explain the header format of the authentication header in transport mode.
- c) Explain the concept of key rings in PGP.

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

- a) Explain in detail RTCP-Message types.
- b) Explain substitution cipher with example.
- c) Explain how a packet filter firewall filters packets.

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

- a) Write a short note on Real time interactive audio/video-.
- b) Using columnar transposition convert the ciphertext  
“STMTCRCCOVUSITEEYPEHCILDIIIOAAE” to plain text. The key  
is CIPHER.

