

Total No. of Questions : 5]

SEAT No. :

P5150

[Total No. of Pages : 2

[5823]-502

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

CS - 352 : COMPUTER NETWORKS - II

(2019 Pattern) (Credit) (Semester - V)

Time : 2 Hours]

[Max. Marks : 35

Instructions to the candidates:

- 1) *All Questions are compulsory.*
- 2) *Figures to the right indicate full marks.*

Q1) Attempt any Eight of the following (out of Ten)

[8 × 1 = 8]

- a) SMTP is a push protocol. State true or false, Justify.
- b) Write two types of connections used by FTP. Also write their port numbers.
- c) What is sampling?
- d) What is used of "BYE" message in SIP (Session Initiation Protocol)?
- e) What is VPN (Virtual Private Network)?
- f) What is multicasting?
- g) Write advantages of packet filter firewall.
- h) Define cryptography.
- i) Encrypt the following plain text with given key using substitution cipher.
Plain text: India is my county, Key = 4.
- j) List methods for verifying the authenticity of the claimant.

Q2) Attempt any Four of the following (out of Five)

[4 × 2 = 8]

- a) Which are traditional ciphers? Write working of shift cipher.
- b) List types of server. Write short note on any one type.
- c) Write advantage or POP.
- d) What is streaming live audio/video?
- e) Write note on IPSec modes.

P.T.O.

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

- a) Explain PGP certificates.
- b) Using columnar transposition cipher convert the given plain text to cipher text.

Plaintext : COMMUNICATIONMUSTBESECURE, Key = FASTER

- c) What is Electronic Code Book (ECB), write it's advantages and disadvantages.

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

- a) Write difference between flat name space and hierarchical name space.
- b) Explain symmetric key cryptography.
- c) Explain Streaming Stored Audio / Video first approach: using a web server, with advantages and disadvantages.

Q5) Attempt any One of the following (out of Two) [1 × 3 = 3]

- a) Explain Real-Time Interactive Audio / Video with diagram.
- b) Explain SSL services in detail.

