

Total No. of Questions : 5]

SEAT No. :

PB1884

[Total No. of Pages : 2

[6237]-502

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

CS - 352 : COMPUTER NETWORKS - II

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

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) List SSL/TSL four protocols.
- b) List the types of MPEG frames.
- c) What is frequency masking?
- d) What is the difference between plaintext and cipher text?
- e) What do you mean by cryptography and cryptoanalysis.
- f) List the PGP services.
- g) State the need of VPN.
- h) List the services of user agent.
- i) What is Hierarchical name space.
- j) What do you mean by Voice over IP.

P.T.O.

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

- a) Write a short note on Message confidentiality - With Symmetric key cryptography.
- b) Distinguish between message integrity and message authentication.
- c) List the types of Email architecture. Explain in short any one.
- d) What are RTCP - message types?
- e) Compare and contrast FTP and HTTP.

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

- a) Write a short note on SSL services.
- b) Explain the header format of the authentication header in transport mode.
- c) Write a short note on Message Access Agent : POP and IMAP.

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

- a) Compare streaming stored, streaming live and interactive live audio/video.
- b) Explain transposition cipher with example.
- c) Write a short note on Proxy firewall.

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

- a) Explain various security services.
- b) Explain any two fundamental cryptographic principles.

