

Total No. of Questions : 8]

SEAT No. :

P-1540

[Total No. of Pages : 2

[6002]-169

S.E. (Information Technology)

BASIC OF COMPUTER NETWORK

(2019 Pattern) (Semester - III) (214445)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) Answer Question 1 or 2, 3 or 4, 5 or 6 and 7 or 8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume Suitable data, if necessary.

Q1) a) Discuss CSMA/CD in details. [9]

b) Explain Reservation, Polling & Token passing. [9]

OR

Q2) a) Write short note on IEEE 802.4(Token Bus) and IEEE 802.5(Token Ring). [9]

b) Discuss CSMA/CA random access technique. How collision avoidance is achieved in the same? [9]

Q3) a) Explain Subnetting and Supernetting with example. [9]

b) Describe Packet format of IPv6 in detail with suitable diagram. [8]

OR

Q4) a) Explain Network Address Translation with suitable diagram. [9]

b) Discuss in detail fragmentation in terms of IPv4. [8]

Q5) a) Explain Interdomain and Intradomain routing protocol in detail. [9]

b) Discuss EIGRP protocol in detail. [9]

OR

Q6) a) Explain RIP message format in detail. [9]

b) Discuss Distance Vector Routing protocol in detail. [9]

P.T.O.

- Q7) a)** Explain three way handshake algorithm for TCP connection establishment. [9]
- b) What is congestion Control? Explain Leaky bucket algorithm. [8]

OR

- Q8) a)** What is Socket? List & explain the socket primitives in client side & server side TCP connection. [9]
- b) Compare TCP and UDP Header with suitable diagram. [8]

