

Total No. of Questions : 8]

SEAT No. :

PB-3836

[Total No. of Pages : 2

[6262]-98

T.E. (Electronics & Telecommunication Engineering)

COMPUTER NETWORKS

(2019 Pattern) (Semester - I) (304185(D)) (Elective-I)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer any Four questions.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Use of Calculator is allowed.*
- 5) *Assume Suitable data if necessary.*

- Q1)** a) Compare IPV4 and IPV6? [6]
- b) List and explain the different types of Addresses used in IPV4? [6]
- c) Explain the need of Subnet mask in subnetting? [6]

OR

- Q2)** a) Compare between Classful and Classless Addressing? [6]
- b) Explain network id and host id. [6]
- c) Explain the services provided by Network Layer. [6]

- Q3)** a) Differentiate between MAC and IP Address? [9]
- b) Differentiate between OSPF and BGP? [8]

OR

- Q4)** a) Explain unicast routing and multicast routing protocol. [9]
- b) What is routing? Explain the distance vector routing algorithm. [8]

P.T.O.

- Q5)** a) Explain UDP protocol and its features with relevant diagram. [9]
b) Explain the term Connection release with suitable diagram? [8]

OR

- Q6)** a) What is Multiplexing and DeMultiplexing? Explain in Detail [9]
b) Explain various transport layer quality of services parameters. [8]

- Q7)** a) Explain simple mail transfer protocol. [6]
b) Explain in brief about TELNET? [6]
c) Explain dynamic host configuration protocol. [6]

OR

- Q8)** a) Write a short note on Electronic Mail System? [6]
b) Explain in detail various FTP Commands? [6]
c) Explain FTP protocol. [6]

