SEAT No. :

PB-3836

[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]**

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]**

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