Date-13|5|19

S.E. (IT) (Sem-IV) (CBSGS)

Duration: 3 Hours   **Total Marks: 80**

N.B.

1. Question number **ONE is compulsory**
2. Attempt any **THREE** questions from question 2 to 6
3. Figures to the right indicae full marks
4. Assume suitable data if necessary

Q1. Answer any **FOUR** from the following   **(20)**
   (a) What are the different types of the classes of IP address?
   (b) Compare TCP/IP vs OSI Model
   (c) Explain the use of SSH
   (d) Explain traditional Ethernet with neat diagram
   (e) What parameters can be used to assess the performance of the network?

Q2.   (a) Explain the functions of each layer of the OSI reference model   **(10)**
      (b) Explain subnetting with example   **(10)**

Q3.   (a) Discuss congestion and flow control in the network   **(10)**
      (b) Explain sliding window protocol with neat diagram   **(10)**

Q4.   (a) Explain working of the DNS server with neat diagram   **(10)**
      (b) Explain TCP connection establishment and termination using three-way
          handshaking   **(10)**

Q5.   (a) Explain the working of the CSMA/CD with neat diagram and flow chart **(10)**
      (b) Explain IPv4 header format   **(10)**

Q6. Write short note on the following **(Any four)**   **(20)**
   (a) Networking and Internetworking Devices
   (b) Timers in TCP protocol
   (c) HDLC
   (d) Slotted ALOHA
   (e) Guided and unguided transmission media

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