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(3 Hours)

[Total Marks : 80]

Note :

- Question No. 1 is compulsory
- Attempt any four from the remaining six questions
- Assumptions should be made whenever required and should be clearly stated
- Answers to sub questions should be answered together
- Illustrate answers with diagrams wherever necessary

- Q1 A What is congestion? Explain Congestion Control in TCP? 10
 B Explain in Brief Multiprotocol Label Switch(MPLS) 10
- Q2 A Differentiate between CSMA CSMA/CD and CSMA/CA 8
 B Explain various Framing Technique used by Data Link Layer? 7
- Q3 A Differentiate between 8
 a. Go back N and Selective Repeat
 b. Intranet ,Internet and Extranet
 B Explain DHCP in detail? What is the advantage of DHCP over bootstrap? 7
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- Q4 A An ISP is granted the block 16.12.64.0/20. The ISP need to allocate 8
 address for eight organization ,each with 256 address
 a. Find the number and range of address in the ISP block
 b. Show the outline of address distribution
 c. Find the range of address for each organization and the range of unallocated address
 B Given Data Word 101001111 and divisor 10111 show the 7
 generation of CRC code word? Comment on the performance of CRC?
- Q5 A Why do routers need queuing algorithm? Explain M/M/1 model? 8
 B What is QoS? What are the method used to provide QoS? 7
- Q6 A Explain the concept of Network Address Translation (NAT) 8
 B What is inter Domain Routing? Explain BGP routing Protocol in detail? 7
- Q7 A Write Short note on 15
 a. SMTP
 b. DNS
 c. Intermediate Devices

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