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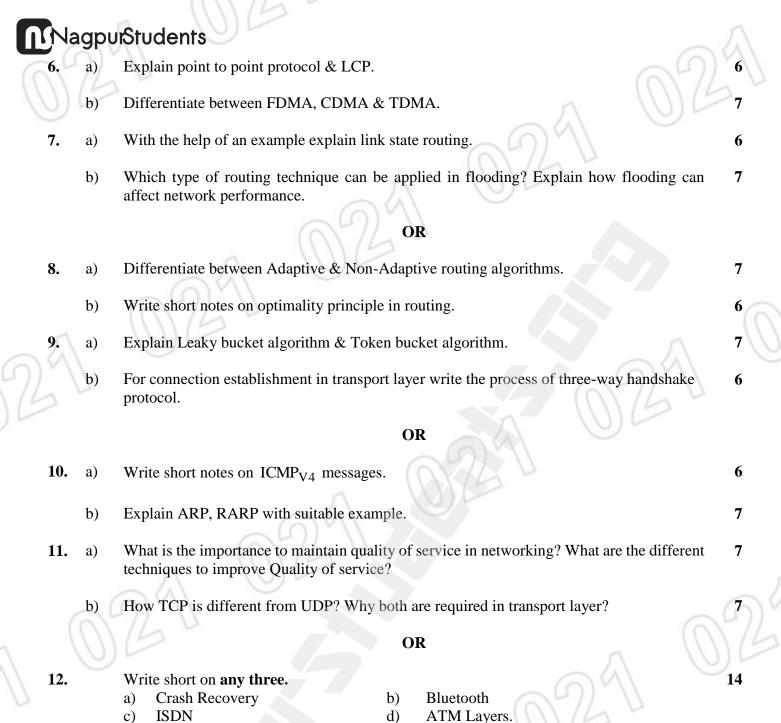




B.E.Sixth Semester (Computer Science Engineering) (C.B.S.)

Computer Networks

P. Pages: 2 NKT/KS/17/7409 Time: Three Hours Max. Marks: 80 Notes: 1. All questions carry marks as indicated. 2. Solve Question 1 OR Questions No. 2. Solve Question 3 OR Questions No. 4. 3. 4. Solve Question 5 OR Questions No. 6. 5. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. 6. Solve Question 11 OR Questions No. 12. 7. Due credit will be given to neatness and adequate dimensions. 8. 9. Assume suitable data whenever necessary. 10. Illustrate your answers whenever necessary with the help of neat sketches. Compare OSI reference model with TCP/IP model. What is meant by layered protocol structure? List the various design issues in computer b) 7 networks. OR Explain with example the different service primitives. 7 2. a) Differentiate between connection oriented services & connectionless services. b) 6 3. Write short notes on CRC & solve the following: a) A bit stream 10011101 is transmitted using standard CRC method where the generator polynomial is $x^3 + 1$. Suppose the third bit from left is inverted during transmission show that the error is detected at receiver's end. Write and explain the simplex stop & wait protocol. 5 b) Explain Go-Back-n protocol. What are the advantages of selective repeat protocol over Go-7 4. a) Back-n protocol. 7 Write short notes on pure ALOHA & slotted ALOHA protocol. b) 5. Explain: a) **Traditional Ethernet** ii) Fast Ethernet Write short notes on CSMA protocols. b) OR







The best time to plant a tree was 20 years ago. The second best time is now.

~ Chinese Proverb

