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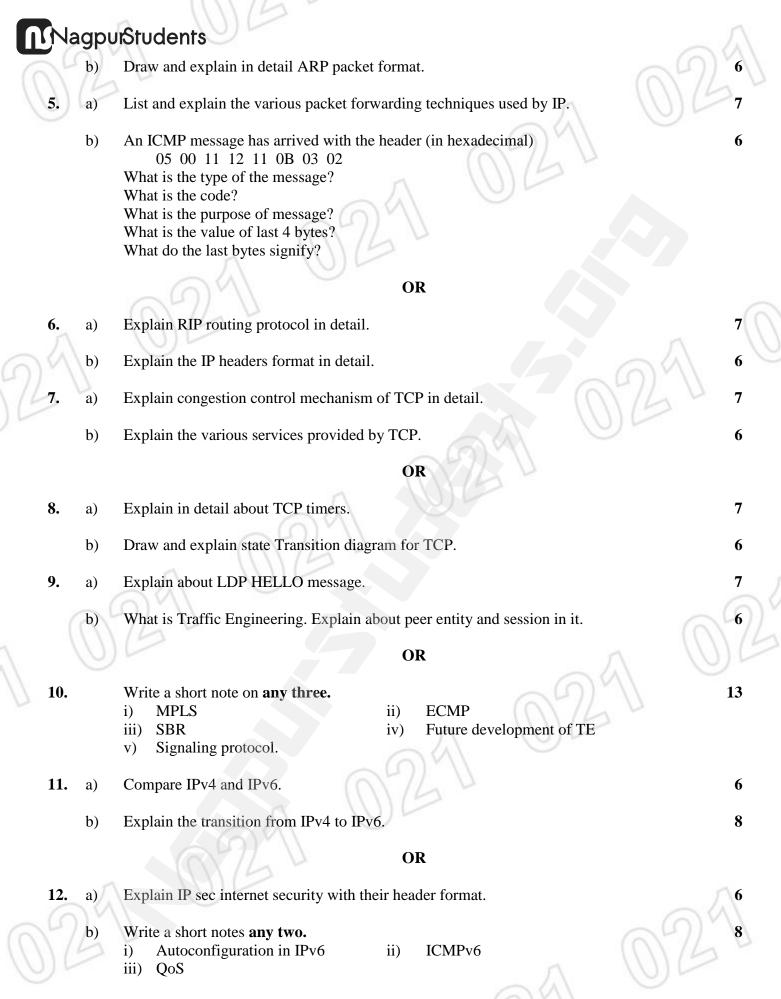




B.E. (Computer Science & Engineering) Seventh Semester (C.B.S.)

Elective - I: TCP & IP

NRJ/KW/17/4628 P. Pages: 2 Time: Three Hours Max. Marks: 80 Notes: 1. All questions carry marks as indicated. Solve Question 1 OR Questions No. 2. 2. Solve Question 3 OR Questions No. 4. 3. Solve Question 5 OR Questions No. 6. 4. Solve Question 7 OR Questions No. 8. Solve Question 9 OR Questions No. 10. 6. 7. Solve Question 11 OR Questions No. 12. 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. What is RFC? Draw and define various maturity levels of RFC. 7 b) Explain the different connecting devices with their OSI layer in which they operate. 6 OR 7 2. Draw and explain TCP/IP protocol suite in detail. a) Give a classification of LAN and WAN in detail, also Differentiate between 802.3 and b) wireless LAN 802.11. **3.** Classify the following IP address. a) $208 \cdot 34 \cdot 54 \cdot 12$ $129 \cdot 14 \cdot 6 \cdot 8$ ii) $242 \cdot 34 \cdot 2 \cdot 8$ iv) $238 \cdot 34 \cdot 2 \cdot 1$ b) Find the class of each address 00000001 00001011 00001011 11101111 i) 11000010 10000011 11101111 11111111 ii) 10100111 11011011 10001011 01101111 iii) 11110011 10011011 11111011 00001111 In a block of addresses, the IP address of the host is $167 \cdot 199 \cdot 170 \cdot 82/27$ c) Find the numbers of addresses in network, the first address and Last address. OR An organisation is granted a block of addresses with the beginning address $14 \cdot 24 \cdot 74 \cdot 0/24$, the organisation needs to have 3 sub blocks of address to use in its three subnets as follows One sub block of 120 addresses i) One sub block of 60 addresses ii) One sub block of 10 addresses Design subnet and draw network diagram.







All our dreams can come true if we have the courage to pursue them.

~ Walt Disney

