

The University of Burdwan
M.Sc. 2nd Semester Examination, 2020(CBCS)
Subject: Computer Science and Application
Paper: MCSA-203
Full Marks: 40 Time 2 Hours

Answer any eight questions (All questions contain equal marks)

(8 X 5 =40)

1. How does firewall work?
2. Write the process of TCP connection open.
3. Discuss the structure of DNS message.
4. Write down the function of DHCP and SMTP protocol.
5. Write a short note on NAT.
6. Explain the format of the SDLC frame.
7. What is the Manchester and Differential Manchester coding of the following?
110011010101
8. What is the code word of the data word 1100111 using Hamming code?
9. Using CRC technique calculate the code word of the message x^7+x^6+1 with the common divisor x^3+1
10. Suppose a router receives an IP address 192.56.43.0 /27. Using subnet mask calculate the class of the address.