NEW HORIZON COLLEGE OF ENGINEERING
DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
I Semester MCA 'A' Section – 20MCA14 - Computer Networks
Session: January 2021 – April 2021
Assignment Questions

Assignment 1:   **Submission Date:9.2.21**

Q.No.	Questions	Marks	Level	COs
	Group 1			
1	Illustrate the architecture of ISO-OSI model With neat diagram by mentioning Protocols at each layer.	10	L3	CO1
2	Calculate the Checksum for the following frames `10011001` `11100010` `00100100` `10000100`	5	L3	CO2
3	Illustrate the Distance vector routing algorithm	10	L3	CO3
4	Discuss DHCP protocol in detail	5	L2	CO4
	Group 2			
1	Illustrate Digital Modulation Techniques NRZ,NRZI,Manchester Encoding, 4B/5B encoding techniques with neat digaram	10	L3	CO1
2	A bit stream 10011101 is transmitted using the standard CRC method. The generator polynomial is x^3+1. 1. Calculate the actual bit string transmitted?	5	L3	CO2
3	Illustrate the Dijkstra algorithm in detail	10	L3	CO3
4	Discuss Address Resolution protocol in detail	5	L2	CO4
	Group 3			
1	Illustrate the various layers of TCP/IP along with protocols at each layer with a neat diagram.	10	L3	CO1
2	With an example demonstrate how the parity check is performed.	5	L3	CO2
3	Illustrate flood-based routing algorithm in detail	10	L3	CO3
4	Discuss IPV4 and IPV6 protocols in detail	5	L2	CO4

Faculty-Incharge   **HoD-MCA**