

Charotar University of Science and Technology [CHARUSAT]
Faculty of Technology and Engineering
Department of Computer Science & Engineering
Subject: CS362 Computer Networks

Unit Test -2

Semester: 6th Sem. B. Tech. (CSE)

Maximum Marks: 30

Date: 06/04/2023 (Friday)

Time: 01:30 to 02:30 P.M.

Instructions:

- (i) Attempt *all* the questions.
(ii) Figures to the right indicate *full* marks.

		Q.-1. Attempt following	[10]
CO 1	R	1) Transport Layer is Responsible for <u>END TO END</u> delivery, Network Layer is responsible for <u>Source To Destination</u> delivery and data-link layer is responsible for <u>Hop to Hop</u> delivery.	[02]
CO 1	R	2) Default service point address for HTTP is <u>80</u> and HTTPS is <u>443</u> .	[02]
CO 5	A	3) Consider the message 11011101 and divisor 1111 obtain code word to be sent to the receiver. <u>11011101000</u>	[02]
CO 5	A	4) Suppose that the sender wants to send 4 frames each of 8 bits, where the frames are 11001100, 10101010, 11110000 and 11000011. Obtain Checksum for the given frames. <u>11010011</u>	[02]
CO 5	A	5) Construct the odd parity Hamming code word for a data byte 1101111. <u>01101010111</u>	[02]
		Q.-2. Attempt Following.	[08]
CO 3	A n	1) Differentiate between IPv4 and IPv6. OR	[04]
CO 3	A n	1) Consider an IP address as 117.239.83.192 /30. For the network, Calculate Total No. of hosts, Valid Subnet block size/s, Total No. of Subnets, Valid Hosts per subnet. <u>Total Hosts:- 4</u> <u>Block Size:- 64</u> <u>Valid Subnets:- valid subnets would be 0,64,128,192</u> <u>Total Hosts Per Subnet : 64</u> <u>Total Subnets : - 4</u> <u>Valid Hosts Per Subnet : 62</u>	[04]
CO 3	A n	2) Differentiate datagram and virtual circuit subnet.	[04]
		Q.-3 Attempt Following	[12]
CO 1	U	1) Discuss Working of DNS.	[06]
CO 4	U	2) Discuss 3- way handshake for connection establishment in TCP.	[06]