

Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
 (An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
 Hingna Road, Wanadongri, Nagpur.

Odd Term 2022-2023 17.01.2023 Mid Semester Exam II

III Semester B.Tech (AIDS)

Course code- AIDS-2203

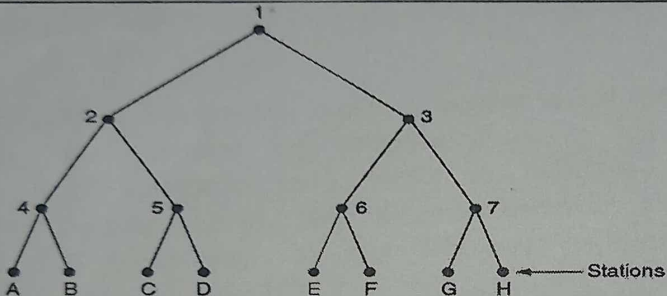
Course Name- Computer Networks

Time: 1 Hr. 30 Min.

Max Marks: 30

Instructions to Examinees

1. All questions are compulsory.
2. Assume suitable data wherever necessary.

Sr. No.	Question & Description	Marks	CO Bloom's Level
Q.1	Solve the following.	10	CO mapped
[A]	Explain Carrier Sense Multiple Access Protocol. Also explain its types.	5	CO3
[B]	 <p>Determine how many slots are required for the above graph using adaptive tree walk protocol and improved version of adaptive tree walk protocol if station D, E and F has data to transmit. Also write steps of calculation.</p>	5	CO2
Q.2	Solve the following.	10	CO mapped
[A]	An organisation is granted a block of addresses with the beginning address 14.24.74.0/24. The organisation needs to have 3 sub blocks of address to use in its three subnets. One sub block of 10 addresses, one sub block of 60 addresses and one sub block of 120 addresses. Design the subnets.	7	CO2
[B]	Discuss the properties of Routing algorithms. Also explain the Optimality principle.	3	CO1
Q.3	Solve the following.	10	CO mapped
[A]	State and explain Quality of Service parameters for Transport layer.	5	CO1
[B]	Draw the TCP segment header and explain it.	5	CO3