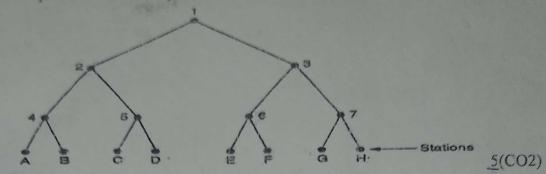
## B. Tech. Third Semester (Artificial Intelligence and Data Science) / 21-22\_SOE\_ADS\_203.1 Examination

Course C	ode : AIDS 2203	Course Name : Computer Networks
Time: 3 Ho	ours]	[ Max. Marks : 50
	Do not write anything on question paper	except your exam seat number.
(3) 4 (4) 4 (5) 4	Write the accurate question number in left marg All questions are compulsory. All questions carry marks as indicated. Assume suitable data wherever necessary and Illustrate your answers wherever necessary	mention at the beginning of answer
. (A)	Explain Interfaces and Services. Also dinterface.	raw relation between layers at an 4(CO1)
(B)	Draw OSI Reference Model and Expla	in each layer in detail. 5(CO1)
. (A)	Classify and explain in brief all the tra	nsmission medias. 4(CO1)
(B)	Describe the transmission impairments as	nd causes of these impairments. 4(CO1)
(A)	Consider a data unit to be transmitted the checksum method to show calculation end, what does it indicate?	
(B)	Explain 1-bit sliding window protocol w	
(A)	Distinguish between Pure and Slotted A	LOHA. 4(CO3)

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Contd.

(B) In the following diagram, if station G and H wants to transmit data, Calculate the number of slots required using Adaptive tree walk and Improved version of Adaptive tree walk protocol.



- 5. (A) Discuss properties of routing algorithm. Define optimality principle.

  4(CO1)
  - (B) Explain IPv4 header format. 4(CO2)
- 6. (A) Write a short note on SMTP. 4(CO2)
  - (B) Explain Quality of Service parameters of transport layer. 4(CO2)

