CSE320

Quiz-2

Total Marks: 15

Name:	ID:	Section:
kHz. The signal has peak ampleted of 12 V at 3	,	and highest frequencies and a s smoothly from the minimum
2. You need to send a PDF document containing 20 pages to a colleague over a 15 Mbps optical fiber link. Each page has an average of 40 lines with 90 characters per line. The distance between you and your colleague is 5000 km, and the signal propagates through the optical fiber at 200,000 km/s. The transmission path includes four routers, each with an average processing delay of 3 ms and a queuing delay of 5 ms per router. Calculate the total delay for the communication.		
3. Consider a channel with a better than the noise level in the channel with a better than the channel with t	pandwidth of 5 MHz. The signal nel.	strength is 100 times stronger
i) What is the highest data rate a	achievable by this channel? [2 m	arks] [2]
•	rmance can be achieved by using of the highest data rate. How m	•
	long, and along this line, the sigitial signal strength at the source	•
Calculate the attenuation in deci	ibels (dB) by the time the signal	reaches the destination. [2]
5. How can transmission impairr	ment occur? Mention one reasor	ı. [1]