Networking and Data Exchange Short Response

Question 1

Define latency in the context of network transmission and explain how it impacts real-time applications, such as video conferencing. [3 marks]

Question 2

Explain what jitter is in network transmission and describe two visual or auditory effects it can have on video streaming.

Marking Guide

#	Marking Criteria	Example	Mark
1	Defines latency	Latency is the delay between sending and receiving data in a network.	1
	Explains 2 contributing factors	Latency can be caused by propagation delay and queuing delay.	1
	Explains impact on real-time apps	High latency makes video conferencing difficult because of noticeable voice delays.	1
2	Defines jitter	Jitter is the variation in the time it takes packets to arrive.	1
	Describes 2 effects	Jitter causes video frames to stutter and audio to go out of sync.	1