

CHAN SUI KI (LA SALLE) COLLEGE
Form 4/5 Computer & IT Worksheet
Computer Networking 4

Name: _____ Class: _____ Class No.: _____ Date: _____

1. _____ refers to converting digital signals to analogue signals while _____ is the process of converting analogue signals to digital signals. The device required for such a task is called a _____. [3 marks]

What is the difference between digital signal and analog signal? [2 marks]

2. Describe the functions of a modem for transmitting data between two computers through a standard telephone line. [4 marks]

If a 56K modem is operating at full speed, how long does it take to download a 1-MB file? [2 marks]

3. Compare asynchronous and synchronous transmission. [6 marks]

	<i>Asynchronous Transmission</i>	<i>Synchronous Transmission</i>
<i>Characteristics</i>		
<i>Advantage</i>		
<i>Disadvantage</i>		

4. Fill in the blanks for *simplex*, *half-duplex*, and *full-duplex* transmissions below and give **one** example for each of the transmission types. [6 marks]

In _____ transmission, data flow only in one direction from the sending device to the receiving device.

e.g., _____

In _____ transmission, data can flow in both directions, but only in one direction at a time.

e.g., _____

In _____ transmission, data can flow in both directions at the same time.

e.g., _____