Name: Class:

Task 1

Explain how, in some cases, it is possible to send data more quickly to a printer through a parallel cable rather than a serial cable.

Task 2

(a) Explain the problem known as ‘skew’ with parallel transmission.

(b) USB cables are commonly used to connect peripheral devices to computers.

(i) Explain how it is possible for USB cables, which perform serial transmission, to be faster than traditional parallel cables that were used to communicate with printers in the 1990s.

(ii) Research USB cables and make notes of the advantages they have over the older parallel cables that they replace.

Task 3

(a) Explain what is meant by the following terms:

(i) Serial, duplex transmission:

(ii) Parallel, half-duplex transmission:

(iii) Serial, simplex transmission:

(b) Many homes in the UK are connected to the Internet using ADSL (Asymmetric Digital Subscriber Line).

Research this type of connection and answer the questions that follow:

(i) Why is the line known as asymmetric?

(ii) Is the line duplex, half-duplex or simplex?