Name: Class: Mark:

1. Designz4All is a design company which currently utilises a wireless network in their office.

Their staff are facing difficulties when transferring their design work to their file server and other staff and clients. Their IT specialist needs to write a report to the company’s managing director explaining why a more expensive wired system would be better suited to the company’s needs.

(a) Explain **two** advantages of using a wired connection rather than a wireless one. [4]

(b) As part of the network upgrade, Designz4All is considering how they connect their Local Area Network (LAN) to the Internet.

Discuss the possible methods that they could choose for their Internet connection. [6]

(c) Designers working for Designz4All often need to visit clients to show them their designs.

When travelling by train, they use a company laptop with mobile data to connect to   
the Internet.

Explain **two** problems that staff might experience when using a mobile data   
connection to travel by train. [4]

2. A Bed and Breakfast (B&B) is looking to increase the number of business customers they have. For each of the following requirements, explain which technology you would recommend for the connection.

(a) The ability to connect to a radio in their rooms so they plan music from a   
smartphone or tablet. [2]

(b) The ability to connect mobile devices and laptops to the Internet. [2]

(c) A room where guests can print documents from their mobile devices or laptops. [2]

[Total 20 marks]