Name: Class: Mark:

1. Jasper’s is a local café serving hot and cold beverages and food. Until now it has had no Internet. It has taken payment by cash only.

It is looking to attract more customers by offering card payments made via the Internet and free Wi-Fi.

In addition, they will need Internet access to the computer in the back office.

(a) Identify **two** user needs that the café has. [2]

(b) Explain **two** reasons why specifications will be important before any solution   
can be built. [4]

(c) The café will be set up as a Local Area Network (LAN).

Explain **two** choices for connectivity which could be used to connect the LAN   
to the Internet. [4]

(d) The café is concerned about the security of the network they create.

Explain **two** ways that the café could protect their network. [4]

(e) Discuss how the performance of the café’s IT system will be affected by the   
features of the network and its component parts. [6]

[Total 20 marks]