

- 1 Data is often encrypted before it is transferred across the internet.
Tick whether each of the following statements about encryption is true or false.

	True (✓)	False (✓)
Data is encrypted to prevent viruses		
Encryption prevents hackers from deleting the data		
Encryption requires a key to decrypt the data		
Encryption scrambles the data so that it cannot be understood		

[4]

- 2 Name and describe **two** of the main features of a Graphical User Interface (GUI).

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- 3 Identify **two** changes in employment patterns for bank workers, other than unemployment, due to the introduction of home banking.

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4 Organisations that collect personal data have a legal obligation to protect that data. Identify **four** principles from the Data Protection Act which the organisations must follow.

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5 A company needs to update its computer system. A new system has been developed and tested. Name and describe **three** alternative strategies which could be used to implement the new system.

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6 A group of car mechanics have asked a computer company to develop an expert system for them.

Identify the stages in the development of this expert system.

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7 Many supermarkets now have a website which allows customers to shop online.

(a) Describe the advantages of online shopping **to the customer**.

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(b) Describe the advantages of online shopping **to the supermarket**.

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10 A supermarket is updating its computer system. It will be replacing the checkout operators' POS terminals. The supermarket has employed a systems analyst to investigate the current system.

(a) Describe the **disadvantages** of the different methods the systems analyst could use to collect information about the existing system.

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(b) Describe the advantages and disadvantages of the different input devices which could be used to input data about the supermarket goods.

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