

UNIT 2

1. Tick (✓) which device produces solid objects.

A Inkjet printer

☐

B Dot matrix printer

☐

C Laser printer

☐

D 3D printer

☒

[1]

2.

For each of the following uses of data capture, name one appropriate direct data entry device. The devices must be different in each case.

(a) Contactless credit cards

..... **Radio Frequency Identification** [1]

(b) Multiple choice answers in an examination paper

..... **Optical Mark Reader** [1]

(c) To scan items at a computerised till

..... **Barcode Scanner** [1]

3.

A glasshouse is used to grow plants and is computer controlled.

(a) Name **three** sensors which could be used in this glasshouse.

- 1 Temperature sensor
- 2 Humidity/moisture sensor
- 3 Light sensor
- 3 pH sensor [3]

(b) Give **two** reasons why data from the sensors need to be converted for use by a computer.

- 1 So that the data from the sensor can be understood by the computer.
 - 2 The output from a sensor is analogue and input to the computer is digital
- [2]

4.

(b) Desktop computers use input and output devices.

(i) State **two** input devices that can be used in a desktop computer for working at home.

- 1 keyboard
- 2 mouse

[2]

(ii) State **two** output devices that can be used in a desktop computer for working at home.

- 1 monitor
- 2 printer

[2]

5.

The keyboard used to enter the password is an input device.

Explain the differences between input and output devices.

An input device sends data to a computer for processing

An output device receives data from the computer

An output device displays the results of processed data

Input devices are controlled by the user

Output devices are controlled by the computer

[4]

6.

State the direct data entry device that is used to read the following types of data.

(i)



QR Scanner

[1]

(ii)



Barcode Scanner

[1]

(iii)



Magnetic Stripe Reader

[1]

(iv)



RFID reader

[1]

7.

Describe the advantages and disadvantages of entering the data by scanning the bar code rather than typing in the number.

Advantages

Faster data entry

Fewer data entry errors are made

Disadvantages

The scanner could misread the barcode whereas people typing in the data are more likely to check

Extra hardware is required increasing costs

If the bar code is damaged/folded/missing then the data may not be read properly

[4]

8.

A bar code reader is an example of a direct data entry device.

State **three** other examples of direct data entry devices.

1 Magnetic stripe reader

2 Radio Frequency Identification reader

3 Optical Mark Reader

[3]

9.