

## ICT Midterm Assessment MS

Question	Answer	Marks
1a	Microphone	1
1b	Numeric keypad	1
1c	Touch pad	1
1d	Graphics tablet	1

Question	Answer	Marks
2	<p><b>Any three from:</b></p> <p>The card may be read accidentally          Only small amounts can be withdrawn          More chance of fraud if card is stolen/lost          May not be able to use the ATM as not everyone will be contactless due to cost          Devices can read the cards wirelessly to steal money</p>	3

3 (a) Any three from:

Name  
 Passport number  
 Date of birth  
 Place of birth  
 Nationality  
 Issue date  
 Expiry date  
 Facial characteristics/photograph/fingerprint/retina scan  
 Biometric measurements (face)  
 Signature  
 Gender  
 Place of issue

[3]

(b) Any three from:

The chip is presented near a computer with a radio-frequency scanner  
 The scanning antenna puts out radio-frequency signals in a relatively short range.  
 It provides a means of communicating with the transponder/the RFID tag  
 The scanning device provides energy...  
 ...so that the chips can broadcast the information in them...  
 ...for the computer to read.

[3]

(c) Any two from:

More secure than a traditional passport as biometric measurement data difficult to forge  
 Counterfeits can be more easily identified than non-RFID passports  
 More rapid flow at security check points/quicker than reading it manually

[2]

4 (a) Dot matrix [1]

(b) TFT/LED/LCD (allow full names such as Thin-Film-Transistor) [1]

(c) 3D printer/3D inkjet printer [1]

(d) Touchscreen [1]

5a	<p>Max two from:</p> <p><b>Advantages</b>            Faster data entry            Fewer data entry errors are made</p> <p>Max three from:</p> <p><b>Disadvantages</b>            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            More reliant on the technology            If the barcode is incorrect the scanner would not know whereas a human could see the difference</p>	4
5b	<p>Three from:</p> <p>Magnetic stripe reader            Radio Frequency Identification reader            Optical Mark Reader            Optical Character Reader            QR scanner            Biometric scanner            Magnetic Ink Character Reader</p>	3

Question	Answer	Marks
6a	<p><b>Three from:</b></p> <p>Measurements can be taken continually            Safer to take the measurements            Measurements can be taken outside school hours            The computer will not forget to take readings            Readings are taken at a more consistent time interval            The computer reads the data more accurately</p>	3
6b	<p><b>Six from:</b></p> <p>The data from the sensor is read/received by the computer            The data is converted to digital by the ADC            The software is opened on the computer            The graph type is loaded/selected            The data is uploaded to the graph            The graph is plotted/created            Axes/legend/title added</p>	6

7i	QR (Code) reader/scanner	1
7(ii)	Bar code reader/scanner	1
7(iii)	Magnetic strip(e) reader/scanner	1
7(iv)	RFID reader/scanner	1