

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>Any three from:</p> <p>The card may be read accidentally</p> <p>Only small amounts can be withdrawn</p> <p>More chance of fraud if card is stolen/lost</p> <p>May not be able to use the ATM as not everyone will be contactless due to cost</p> <p>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>Advantages Faster data entry Fewer data entry errors are made</p> <p>Max three from:</p> <p>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 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	Three from: 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	3
6b	Six from: 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	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