**A level Computer Science – Bridging Work**

**Task 4 – Input Devices**

**Part 1**

Building on your Visual Basic skills

1. <https://www.homeandlearn.co.uk/NET/vbNet.html> do lesson 4 adding text box to a form only

**Part 2**

If you get stuck with any of the following question check out Task 4 - Support.pdf

1. Barcode readers or scanners are widely used throughout the world.

(a) Give two uses of barcodes other than on supermarket products. [2]

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# (b) For each of the situations below, state the most suitable input device. You may only use each device once.

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| Digital camera | Barcode scanner | RFID enabled device |

# (i) Anti-theft detection and identification of small, high-value items [1]

# (ii) Identification and recognition of vehicle number plates at a toll crossing [1]

# (iii) Validating tickets for admission to an event [1]

2. A taxi company is considering issuing all its drivers with business cards which would include a QR code displayed on the back of it.

(a) What might the taxi company do with the QR code? [1]

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(b) How would the recipient of a business card use the QR code? [2]

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(c) Give one advantage of the use of QR codes to the company owner. [1]

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3. Give three DIFFERENT applications that use keyboards or keypads.

In each case, explain why the keyboard or keypad is used. [6]

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4. Name a suitable sensor which could be used in each of the following applications:

(a) Opening and closing of automatic doors at a hotel as a guest approaches

(b) Monitoring the air pollution at the perimeter of an airport

(c) Checking whether clothes are dry in an automatic drier

(d) Detect a person entering a room and automatically turn on the lights

(e) Weigh fruit at the check-point in a supermarket

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| Application | Suitable sensor |
| a |  |
| b |  |
| c |  |
| d |  |
| e |  |

[5]

[Total 20 Marks]