# Homework 5 Input and output devices

# 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** |

# (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]

# Describe the principles of operation of a barcode scanner. [4]

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# A mail sorting office uses a camera-based scanner and specialist optical character recognition software in order to scan and recognise postcodes in typed addresses on envelopes.



# Describe the principles of operation of a digital camera excluding its ability to determine a character from an image. [3]

# Explain how a digital camera image may be used to determine a character of text. [2]

3. A company uses a laser printer to print black and white invoices and customer orders. Describe the stages of operation of the laser printer as it produces an invoice. [6]

 [Total 18 Marks]