

# QUESTION 1.

Mark Scheme  
Cambridge IGCSE – May/June 2015



(b)

| description of stage                                                                                                                                   | seq. num. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| the instruction is then copied from the memory location contained in the MAR (memory address register) and is placed in the MDR (memory data register) | 3         |
| the instruction is finally decoded and is then executed                                                                                                | 7         |
| <i>the PC (program counter) contains the address of the next instruction to be fetched</i>                                                             | (1)       |
| the entire instruction is then copied from the MDR (memory data register) and placed in the CIR (current instruction register)                         | 4         |
| the address contained in the PC (program counter) is copied to the MAR (memory address register) via the address bus                                   | 2         |
| the address part of the instruction is placed in the MAR (memory address register)                                                                     | 6         |
| the value in the PC (program counter) is then incremented so that it points to the next instruction to be fetched                                      | 5*        |

The incrementation of the program counter can appear at any stage after 2. All other stages must be in the correct given order.

[6]

8 (a) hours: 18

minutes: 53

[2]

(b)

| hours ("C") |   |   |   |   |   |   |   | : | minutes ("D") |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---------------|---|---|---|---|---|---|---|
| 0           | 0 | 0 | 0 | 0 | 1 | 1 | 1 | : | 0             | 0 | 0 | 1 | 1 | 1 | 1 | 0 |

[2]

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**Minjie Lin**



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