

IGCSE PHYSICS 4420/03 - SUMMER 2010

| | |
|-------|--------------------------|
| aps | accept phonetic spelling |
| dna | do not accept |
| dop | dependent on previous |
| ecf | error carried forward |
| nwn | no working necessary |
| owtte | or words to that effect |
| pot | power of ten |

Forces June 2010 Mark Scheme

| Question Number | Acceptable Answers | Extra Information | Mark |
|-----------------|--------------------|-------------------|------|
| 1(a)(i) | six/6 | aps | |
| | | | (1) |

| Question Number | Acceptable Answers | Extra Information | Mark |
|-----------------|--------------------|---|------|
| 1(a)(ii) | 0.8 (N) | ecf from (a)(i) e.g. $(5 \times 0.1) + 0.2 = 0.7$ (N) allow (1) for correct method $(n \times 0.1) + 0.2$ but wrong calculation or wrong n (i.e. not 6 or ecf) e.g. $(6 \times 0.1) + 0.2 = 0.7$ | |
| | | | (2) |

| Question Number | Acceptable Answers | Extra Information | Mark |
|-----------------|--------------------|-------------------|------|
| 1(b)(i) | 21.2 (cm) | | |
| | | | (1) |

| Question Number | Acceptable Answers | Extra Information | Mark |
|-----------------|--------------------|---|------|
| 1(b)(ii) | 9 (mm) | allow (1) for correct method e.g. $221 - \text{answer to (b)(i) in mm}$ allow (1) for 0.9 (cm) or other pot error | |
| | | | (2) |

Forces June 2010 Mark Scheme

| Question Number | Acceptable Answers | Extra Information | Mark |
|-----------------|---|---|------|
| 1(c)(i) | all the range from the origin to the end of the straight line section | expect a clear mark at the <i>top</i> of the section and an indication whether the section is above or below this mark do not credit a response which exceeds this range | |
| | | | (1) |
| 1(c)(ii) | <u>starts at the origin</u> , similar to original but steeper must not cut original line | allow a (steep) curve (but not if it bends back on itself) | |
| | | | (1) |