Practice Question Set For GCSE
Subject : Physics
Paper-2 Topic: Forces (Low Demand Questions)

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Name of the Student:_____
Max. Marks : 23 Marks **Time : 23 Minutes**

Mark Schemes

Q1.

(a) MN

accept 5.8, 8 seconds must include unit

1

(b) LM

accept 0.8, 5.8 seconds must include unit

1

(c) (i) 0.8

1

(ii) drinking alcohol

1

(d) straight (by eye) line starting at 0.8 seconds

1

line drawn steeper than LM starting before L

ignore lines going beyond 2 seconds but line must exceed 2.5 metres per second before terminating

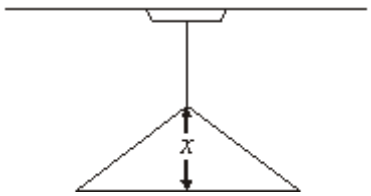
1

[6]

Q2.

(a) centre of **X** should appear to be on the continued line of the flex and in the body of the lamp as judged by eye

example



1

(b) below

1

(c) (D)→B→F→A→C→(E)

*all four correct for **3** marks*

***or** any two correct for **2** marks*

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or *just one correct for* ***1*** *mark*

3

[5]

Q3.

(a) (i) friction

accept any way of indicating the correct answer

1

(ii) gravity

accept any way of indicating the correct answer

1

(b) (i) accelerates **or** <u>speed</u> / velocity increases

accept faster <u>and</u> faster (1 mark)

do ***not*** *accept faster pace / falls faster*
or suggestions of a greater but constant speed

1

downwards / falls

accept towards the Earth / ground

this may score in part (b)(ii) if it does not score here and there is no contradiction between the two parts

1

(ii) constant speed / velocity **or** terminal velocity / speed or zero acceleration

stays in the same place negates credit

1

[5]

Q4.

(a) B

more aerodynamic **or** most streamlined shape **or**
smaller (surface) area

accept less air/wind resistance ***or*** *less drag* ***or*** *less friction clothing traps less air* ***or*** *rolled up into ball* ***or*** *arms, legs drawn in*

accept converse

2

(b) (i) gravity

1

(ii) air resistance

1

(iii) go up

1

(iv) stays the same

1

(c) bigger the area, the bigger force Y

accept the converse

or bigger the area more drag

accept when the parachute opens then force Y bigger

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or bigger the area more air resistance

need the relation of area to force

1

[7]

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