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

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Name of the Student:_____
Max. Marks : 19 Marks **Time : 19 Minutes**

Mark Schemes

Q1.

(a) C

1

(b) 2040 / 120

1

17 (m / s)

1

*allow 17 (m / s) with no working shown for **2** marks*

(c) the thinking distance and the braking distance combined

accept 36 m

1

(d) thinking distance increases

1

braking distance stays the same

1

[6]

Q2.

(a) 5.5 (N)

1

(b) The spring gets shorter

1

(c) **Level 2 (3–4 marks):**
A detailed and coherent description of the experiment. The response provides a logical sequence.

Level 1 (1–2 marks):
Simple description of the experiment with some steps missing. The response may not be in a logical sequence and may not lead to the collection of valid results.

0 marks:
No relevant content.

Indicative content

- set up a clamp stand with a clamp and hang a spring on it
- use another clamp and boss to fix a half metre rule alongside the spring
- record the metre rule reading that is level with the bottom of the spring
- hang a weight from the bottom of the spring

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- record the new reading on the rule and the extension on the spring
- remove the weight and check the length of the spring
- repeat by adding more weights and record the readings on the rule

4

(d) Use a pointer from the spring to measure the length.

1

Make sure the spring is stationary before measuring length.

1

(e) Extension is directly proportional to force

*if more than **one** box ticked apply list principle*

1

(f) 0.5 (N)

1

(g) 0.100 m

*if more than **one** box ticked apply list principle*

1

(h) $0.5 \times 20 \times (0.050)^2$

1

= 0.025 (J)

1

*allow 0.025 (J) with no working for **2** marks*

[13]

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