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

Name of the Student:_____
Max. Marks : 21 Marks **Time : 21 Minutes**

Mark Schemes

Q1.

(a) vectors have magnitude and direction **1**

(b) there is a resultant force acting on the ball **1**

(c) length of lane = 4.5 × 4.0 **1**

length of lane = 18 (m) **1**

(d) arrow in opposite direction **1**

arrow same length drawn from the ball **1**

(e) $a = \frac{12 - 0}{0.15}$ **1**

$a = 80\ (m/s^2)$ **1**

(f) increases **1**

stays the same **1**

increases **1**

[11]

Q2.

(a) springs push the keys back to their original position **1**

(b) so that the same force is needed to press each key **1**

(c) (the length) decreases
allow the spring compresses

1

(d) 4.0 mm

1

(e) the spring/key will not move far enough

1

so will not press the (electrical contact) switch

1

(f) F = 200 × 0.0040

1

F = 0.80 (N)

allow 0.8 (N)

1

(g) shorter spring

1

spring with a lower spring constant

allow spring that requires less force to compress
allow weaker spring
allow spring that is easier to compress

1

[10]