

Name of the Student: \_\_\_\_\_

Max. Marks :18 Marks

Time : 18 Minutes

Mark Schemes

**Q1.**

- (a) **B** or bungee cords 1
- C** or springs or playground ride  
*each additional answer loses 1 mark minimum mark zero* 1
- will go back to original shape/size 1
- (b) (i) newton 1
- (ii) 0 – 5 (N) or 5  
*accept 1 – 5 (N)*  
*do **not** accept 4* 1
- (iii) 16 (cm) 1
- (iv) 2.5 (N)  
*accept answer between 2.4 and 2.6 inclusive* 1

[7]

**Q2.**

- (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*

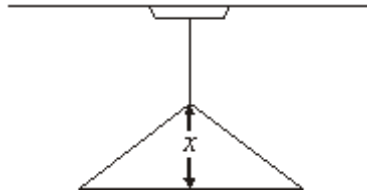
1

[6]

**Q3.**

- (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*

*or just one correct for 1 mark*

3

[5]