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GOLDEN ELITE EXAMINTIONS 2020

MARKING SCHEME PHYSICS PAPER 3 PRACTICAL

Question 1

1. b

Length l(cm)	100	80	60	40	20	0
Voltage	0.10	0.15	0.20	0.2	0.45	1.00
Current I (A)	0.04	0.05	0.07	0.09	0.12	0.16

(7 marks)

- d) The bulb lights more brightly. (2 marks)
- e) Graph should be a smooth curve with positive slope
 - A 1mk
 - S 1mk
 - P 2 mks
 - C 1 mk

Total (5 mks)

- f) The resistance of the bulb. (2 marks)
- g) Voltage at length L = 70cm

Candidate value from the his/her graph.

showing how to get it(1 mark) $0.75 \pm .1$

Writing the value1 mark

f) as the current increases, the resistance also increases hence the bulb glows more brightly

Question 2

- a) L = 0.3m (1 mark)
- c) t = 5.82s (1 mark)

e)

Θ (°)	60	70	80	90	100	110
Time for 10 oscillations t(s)	5.82	6.42	6.96	7.54	8.28	10.59
Periodic time (T) (s)	0.582	0.642	0.696	0.754	0.828	1.059
T^2 (s ²)	0.3387	0.4122	0.4844	0.5685	0.6856	1.1215
$^{1}/_{T}^{2}$ (s ²)	2.9525	2.4260	2.0644	0.5685	1.4586	0.8917
Cos¹/ ₂ O	0.8660	0.8192	0.7660	0.7071	0.6428	0.5736

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A...... 1mk

 $S \ldots \ldots 1mk$

P..... 2 mks

L..... 1 mk

5 mk

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