Practice Question Set For GCSE

Subject: Physics

Paper-2 Topic: Forces (Low Demand Questions)

Name of the Student:



Max. Ma	Max. Marks : 18 Marks		
Mark Schemes			
Q1.			
(a)	pitc	h	1
	loud	Iness	1
(b)	(i)	as length (of prongs) decreases frequency / pitch increases accept converse accept negative correlation	
		ignore inversely proportional	1
	(ii)	8.3 (cm) accept 8.3 ± 0.1 cm	1
	(iii)	(8.3 cm is) between 7.8 (cm) and 8.7 (cm) ecf from part (ii)	1
		(so f must be) between 384 (Hz) and 480 (Hz)	1
		410 (Hz) $\leq f \leq$ 450 (Hz) if only the estimated frequency given, accept for 1 mark an answe within the range	er 1
(c)	(i)	electronic	1
	(ii)	frequency is (very) high accept frequency above 20 000 (Hz) or audible range	1
		so tuning fork or length of prongs would be very small (1.2 mm)	1
(d)	285	accept any correct rounding 286, 290, 300 allow 2 marks for 285 allow 2 marks for correct substitution 0.0035 = 1 / f	

[1	3]

Q2.

(a) potential

1

3

(b) (i) 13 200

allow 1 mark for correct substitution, ie 660 \times 20 provided no subsequent step shown

2

(ii) 16.5

allow 1 mark for correct

4

or

their (b)(i)

800 correctly calculated

substitution, ie $\frac{13\ 200}{800}$ or $\frac{\text{their (b)(i)}}{800}$ provided no subsequent step shown

2

[5]