Practice Question Set For GCSE

Subject: Physics

Name of the Student:_

Paper-2 Topic: Forces (Low Demand Questions)



Max. Marks: 18 Marks			Time : 18 Minute	
Q1.				
(a)	pito	ch	1	
	loud	dness	_	
			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) ≤ f ≤ 450 (Hz)		
		if only the estimated frequency given, accept for 1 mark an answer within the range		
			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	5.7 (Hz)		
		accept any correct rounding 286, 290, 300		
		allow 2 marks for 285		
		allow 2 marks for correct substitution $0.0035 = 1/f$ allow 1 mark for $T = 0.0035$ s		

Q2.

(a) potential

1

3

(b) (i) 13 200

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

2

(ii) 16.5

allow 1 mark for correct

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]