



Cambridge IGCSE™

PHYSICS

0625/62

Paper 6 Alternative to Practical

May/June 2020

MARK SCHEME

Maximum Mark: 40

Published

Students did not sit exam papers in the June 2020 series due to the Covid-19 global pandemic.

This mark scheme is published to support teachers and students and should be read together with the question paper. It shows the requirements of the exam. The answer column of the mark scheme shows the proposed basis on which Examiners would award marks for this exam. Where appropriate, this column also provides the most likely acceptable alternative responses expected from students. Examiners usually review the mark scheme after they have seen student responses and update the mark scheme if appropriate. In the June series, Examiners were unable to consider the acceptability of alternative responses, as there were no student responses to consider.

Mark schemes should usually be read together with the Principal Examiner Report for Teachers. However, because students did not sit exam papers, there is no Principal Examiner Report for Teachers for the June 2020 series.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the June 2020 series for most Cambridge IGCSE™ and Cambridge International A & AS Level components, and some Cambridge O Level components.

This document consists of 7 printed pages.

Question	Answer	Marks
1(a)	clear diagram showing use of set square and rule with horizontal line of set square across to vertical rule from approximate centre of bob	1
	rule positioned to enable measurement of d from bottom of clamp	1
	wording to include perpendicular viewing of the rule	1
1(b)(i)	$t_1 = 28.12$ (s)	1
1(b)(ii)	$T_1 = 1.406$ (s)	1
1(c)	$m_A = 52$	1
1(d)(i)	first box only ticked (error carried forward possible)	1
1(d)(ii)	justified by correct reference to results	1
1(e)(i)	rule or protractor used	1
	method explained / diagram drawn	1
1(e)(ii)	length	1

Question	Answer	Marks
2(a)	$V = 0.2$	1
	$I = 0.28$	1
	cm, V, A	1

Question	Answer	Marks
2(b)	graph: axes correctly labelled and right way round	1
	suitable scales	1
	all plots correct to $\frac{1}{2}$ small square	1
	good line judgement, thin, continuous line	1
2(c)(i)	conclusion matching readings (expect I constant)	1
2(c)(ii)	justification to match (i) with reference to results expect I values very close / equal	1
2(d)	method shown clearly on graph	1
	V_L correct to $\frac{1}{2}$ small square	1

Question	Answer	Marks
3(a)	23	1
3(b)(i)	47	1
3(b)(ii)	stir	1
3(b)(iii)	14 and 3.36 or 3.4	1
3(c)	26, 35 and 0.74(3)	1
	S and W with no units	1

Question	Answer	Marks
3(d)	statement to match results	1
	justification to match statement and including clear reference with appropriate number from the results	1
3(e)	room temperature	1
	temperature of hot water	1
3(f)	second and third boxes ticked	1

Question	Answer	Marks
4	MP1 diagram showing strip clamped to bench with majority overhanging	1
	MP2 means to measure bending, e.g. vertical metre rule at end of strip	1
	MP3 add load at / near end of strip and measure the amount of depression	2
	MP4 repeat with other strips	
	MP5 variables any one from: all strips to have same width / thickness / profile use of same load(s) allowance for unloaded depression	1
	MP6 table with columns for material, load and depression with correct units	1
	MP7 strip that bends most with same load is most bendy / alternative wording	1