



Cambridge Assessment International Education
Cambridge International General Certificate of Secondary Education

PHYSICS**0625/61**

Paper 6 Alternative to Practical

October/November 2019

MARK SCHEME

Maximum Mark: 40

Published

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Question	Answer	Marks
1(a)(i)	b 16.9	1
1(a)(i)	a / b 1.37 (ecf allowed)	1
1(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
1(c)	triangle method indicated on graph	1
	triangle at least half of candidate's distance between extreme plots	1
1(d)	Correct calculation, $W = G$	1
	to 2 or 3 significant figures	1
1(e)	Balance on pivot with no load – balance point is at c of m	1
1(f)	Obtaining a stable balance	1

Question	Answer	Marks
2(a)(i)	$V = 2.5$	1
	$I = 0.3(0)$	1
	Both units correct	1
2(a)(ii)	R_1 8.33 (ecf allowed)	1
2(b)	R_2 11.4 with unit Ω	1
2(c)	Statement matches results	1
	Justification matches statement	1
2(d)	Lamps in parallel and correct symbol for lamp	1
	One voltmeter, with correct symbol, in parallel with lamps	1
	Variable resistor in correct position, with correct symbol	1

Question	Answer	Marks
3(a)	24 (°C)	1
3(b)(i)	Times 60, 120, 180, 240, 300	1
3(b)(ii)	Units s and °C	1
3(c)	10, 7	1
3(d)(i)	Correct box ticked to match readings	1
3(d)(ii)	Justification to match (i), quoting figures	1
	Reference to same time	1
3(e)	Two from: Insulate Lid Lower starting temperature Higher room temperature Smaller volume of water Smaller surface area	2
3(f)	Clearly shown perpendicular line of sight	1
	Clearly shown bottom of meniscus	1

Question	Answer	Marks
4	MP1 How the ball will move: Back and forth / like a pendulum	1
	MP2 Release from a determined position, time until stops	1
	MP3 Repeat with at least two more values of independent variable	1
	MP4 Statement of variable to be changed	1
	MP5 Statement of a variable to keep constant	1
	MP6 Table with columns for chosen variable that is changed and time with correct units, s for time.	1
	MP7 Compare chosen variable with time. Or plot graph of chosen variable against time	1