

A Level Physics A H556/01 Modelling physics

Question Set 1

Multiple Choice Questions

1	Which is the best estimate of the area of a rectangular field of length $98 \pm 3 \text{m}$ and width $47 \pm 2 \text{m}$?						
	Α	$4600 \pm 5 \mathrm{m}^2$					
	В	$4600 \pm 6 \mathrm{m}^2$					
	С	4600 ± 300 m ²					
	D	$4606 \pm 337 \text{m}^2$					
	Your answer			[1]			
2	Which of	the following units i	s not an S.I. base unit?				
	Α	ampere					
	В	mole					
	С	volt					
	D	kilogram					
	Your ans	wer		[1]			
3	Which se	t of quantities are a	Il scalar?				
	Α	A acceleration, displacement, velocity					
	B energy, mass, poC extension, force,		ver				
			gravitational potential energy				
	D	weight, kinetic ene	ergy, work done				
	Your answer			[1]			
4	Which se	t of prefixes A , B , C	or D are in order of increasing magnitude?				
	Α	micro, milli, centi, k	ilo				
	B milli, centi, micro,		rilo				
	С	C kilo, centi, milli, micro					
	D centi, micro, milli, kilo						
	Your ans	wer		[1]			

J	A Solid Cy	A solid cylindrical glass rod has length 20.0 ± 0.1 cm and diameter 5.00 ± 0.01 mm.						
	What is t	ne percentage unce	rtainty i	in the calculated volume	of this rod?			
	Α	0.1%						
	В	0.2%						
	С	0.7%						
	D	0.9%						
	Your ans			[1]				
An object is falling. The weight of the object is 4.5 N. The wind provides a horizontal force of magnitude <i>F</i> on the object. The resultant force on the object is 5.8 N. Air resistance and upthrust on the object are negligible.								
	What is the value of <i>F</i> ?							
	Α	1.3 N						
	В	3.7 N						
	С	7.3 N						
	D	13 N						
	Your answer						[1]	

Total Marks for Question Set 1: 6



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