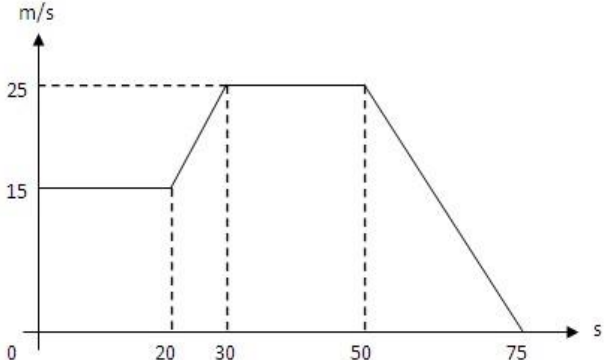
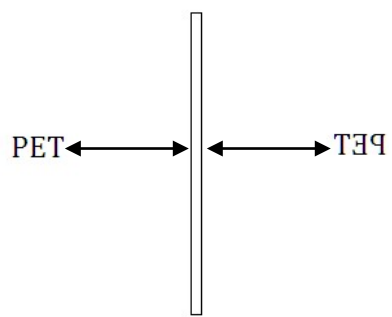
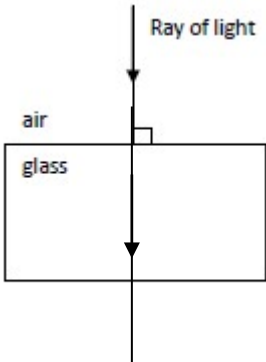


Physics Specimen Paper 1 – Marking Scheme

Question	Answer	Mark	Remark						
1 (1)	B	10 marks	1 mark for each correct letter encircled						
1 (2)	C								
1 (3)	B								
1 (4)	D								
1 (5)	D								
1 (6)	D								
1 (7)	A								
1 (8)	C								
1 (9)	A								
1 (10)	A								
2 (a) (i)	<table border="1"><tr><td>AB</td><td>6.2 ± 0.1 cm</td></tr><tr><td>BC</td><td>3.0 ± 0.1 cm</td></tr><tr><td>CD</td><td>1.9 ± 0.1 cm</td></tr></table>	AB	6.2 ± 0.1 cm	BC	3.0 ± 0.1 cm	CD	1.9 ± 0.1 cm	2 marks	
AB	6.2 ± 0.1 cm								
BC	3.0 ± 0.1 cm								
CD	1.9 ± 0.1 cm								
2 I (a) (ii)	Avoid parallax error while reading	1 mark							
2 I (b) (i)	To the measure depth of an object	1 mark							
2 I (b) (ii)	2.90 + 0.06 = 2.96 cm	2 marks	1 mark for addition 1 mark for correct answer						
2 II (a) (i)	Accurate value/ easy to read/ inexpensive	1 mark	1 mark for 1 advantage						

2 II (a) (ii)	Break easily when dropped/ battery runs out	1 mark	1 mark for 1 disadvantage
2 II (b)	Kelvin	1 mark	
3 (a) (i)	The distance travelled per unit time	2 marks	
3 (a) (ii)	Covers the same distance in the same interval of time	2 marks	
3 (b)		3 marks	1 mark for labeling 1 mark for correct shape of graph 1 mark for correct values of time/speed
3 (c)	Deceleration = $\left(\frac{v-u}{t}\right) -$ $= -\left(\frac{0-25}{75}\right)$ $= \frac{1}{3}$	2 marks	1 mark for correct formula 1 mark for correct answer
4 (a) (i)		1 mark	
4 (a) (ii)	Right side becomes left and vice versa	1 mark	Accept equivalent ways of expressing the same idea
4 (a) (iii)	The word AMBULANCE is written inverted for drivers see it the right way.	1 mark	Accept equivalent ways of expressing the same idea

4 (b) (i)	It an imaginary line perpendicular to the reflecting surface	1 mark	Accept equivalent ways of expressing the same idea
4 (b) (ii)	90°	1 mark	1 mark for correct answer
4 (b) (iii)		1 mark	1 mark for undeviation
5 (a)	Work done = force x distance = weight x distance = 10000 x 20 = 200000 J	2 marks	1 mark for correct formula 1 mark for correct answer
5 (b) (i)	Energy can neither be created nor destroyed It can be converted from one form to another	2 marks	1 mark for each sentence
5 (b) (ii)	200000 J		
5 (c) (i)	200000 J		
5 (c) (ii)	W= mg m= W/g = 10000/10 = 1000 kg	2 marks	1 mark for correct formula 1 mark for correct answer
5 (c) (iii)	K.E = ½ x m x v² v √ $\frac{2 KE}{m}$ = = $\sqrt{\frac{2 \times 200000}{1000}}$ = $\sqrt{400}$_____ = 20 m/s	2 marks	1 mark for correct formula 1 mark for correct answer
6 (a)	Ammeter	1 mark	
6 (b)	One volt is equal to one joule per coulomb	1 mark	
6 (c)	p.d = (R/R_{eff}) x emf = 4/12 x 12 = 4 V	2 marks	1 mark for correct formula 1 mark for correct answer

6 (d) (i)	series	1 mark	
6 (d)(ii)	No	1 mark	