Practice Question Set For GCSE

Subject: Physics

Paper-2 Topic: Forces (Low Demand Questions)



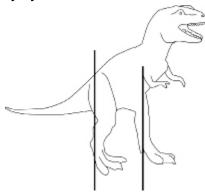
Max. Marks: 17 Marks Time: 17 Minutes

Mark Schemes

## Q1.

(a) (i) centre of **X** above the feet and in the body

a vertical line from their **X** falls between two lines in diagram - judged
by eye



(b) any **two** from:

- make (the area of) feet / base bigger
- make feet wider apart
- makes legs shorter / heavier
- make head smaller / lighter
- make tail touch the ground / make the tail longer accept 'make centre of mass / gravity lower'

[4]

## **Q2.**

(a) The driver has been drinking alcohol.

reason only scores if this box is ticked

1

2

1

1

	driver's reaction time increases	
	accept slower reactions	
	accept slower reaction time	
	or	
	thinking distance / stopping distance increases	
	do not accept braking distance increases	
	or driver less alert	
	accept driver may fall asleep / be tired	1
(b)	they are all variables that could affect outcome / results	
	accept specific effect of changing one of the variables	
	accept to make the test valid	
	ignore reliable	
		1
	so data / barriers can be compared	
	accept to see which is / works best / safest	
	do <b>not</b> accept fair test on its own	
	40 1100 400 per 1411 1000 cm 110 cm 11	1
(-)	Calca Sa hadis dan tanan and melalula bassas	
(c)	ticks in both the top <u>and</u> middle boxes	1
		[5
		-
00		
Q3.		
(a)	distance travelled under the braking force	
	accept braking (distance)	1
		•
(b)	(directly) proportional	
	accept a correct description using figures	
	or	
	increase in the same ratio	
	eg if speed doubles then	
	thinking <u>distance</u> doubles	
	accept for 1 mark positive correlation	
	accept for 1 mark as speed	
	increases so does thinking <u>distance</u>	
	accept as one increases the other increases	
	accept as thinking <u>distance</u> increases speed increases	
		2
(c)	(i) control variable	
(-)	(4)	1
	(ii) averaging and done advident listens to reveil / in ad /ata)	
	(ii) experiment done, student listens to music / ipod (etc)	1
		-
	experiment (repeated), student not listening to music	
	for both marks to be awarded there must be a comparison	_
		1
(d)	increase it	

1

1

(e) **Y** 

[8]