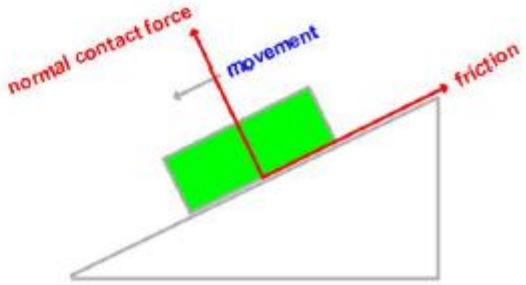
Practice Question Set For GCSE
Subject : Physics
Paper-2 Topic : 9_Forces and their effect

Name of the Student:_____
Max. Marks : 09 Marks **Time : 09 Minutes**

Mark Schemes

Q1.

Question number	Answer	Additional guidance	Mark
	• An arrow showing the 'normal contact force' - from between the two surfaces, acting upwards (1) • An arrow showing the 'friction' force – from between the two surfaces (1) • Both forces in the correct directions, as shown (1) 	generally upwards / away from the surface can be to the left or to the right they do not need to start from the same point	(3)

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Q2.

Question number	Answer	Additional guidance	Mark
	(sum of) the clockwise moments = (sum of) the anticlockwise moments	moment of magnet = moment of modelling clay moments are equal (size)	**(1)** **AO1**

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Q3.

Question number	Answer			Mark
(i)	B	1	same as P	(1) AO 1 1

The only correct answer is B

A *is incorrect because the number of teeth on P and R are equal*
C *is incorrect because Q reverses the rotation of P and then R reverses the rotation of Q*
D *is incorrect because Q reverses the rotation of P and then R reverses the rotation of Q*

Question Number:	Answer	Additional Guidance	Mark
(ii)	use of distance = pitch x number of teeth (moved) (1) evaluation (1) (distance =) 20 (mm)	allow first mark if 2 x 4 (=8) or 2 x 40 (=80) seen award full marks for correct answer without working	(2) AO 1 1

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Q4.

Question number	Answer	Mark
	B	(1)

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Q5.

Question number	Answer	Mark
	☒ **A** acceleration This is the only vector quantity from the options given	**(1)** **AO1.1**

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