

## GRADE 11 PHYSICAL SCIENCES MARCH TEST

### QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.6) on your folio paper. Example 1.7, D.

- 1.1 The graphs below show the relationship between the net force and the acceleration for two masses X and Y.



Which one of the following statements is true?

- A. Mass of X is greater than mass of Y.  
B. Acceleration of X is greater than acceleration of Y.  
C. Mass of Y is greater than mass of X.  
D. The slope of X is greater than the slope of Y.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A car moving with constant acceleration.  
B. A ball falling from the sky to the ground with constant acceleration.  
C. A car moving with constant velocity on a horizontal road.  
D. A car moving with constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object moving with constant velocity in the horizontal direction.  
B. An object moving with constant velocity in the vertical direction.  
C. An object moving with constant velocity in the horizontal direction.  
D. An object moving with constant velocity in the vertical direction.
- 1.4 The inertia of an object...
- A. is greater for a heavier object.  
B. is greater for an object moving faster.  
C. is the resistance to any change in its state of motion.  
D. is the force that causes an object to move.
- 1.5 An astronaut has a weight  $F_g$  on Earth. What distance, in terms of the radius of the Earth ( $r$ ), will the astronaut be if his weight is a 1/4 of his weight ( $F_g$ ) on the

surface of the Earth?

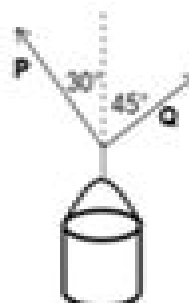
- A.  $2r$   
B.  $r$   
C.  $1.5r$   
D.  $0.5r$
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A. The box is too heavy.  
B. The box is too light.  
C. The box is too big.  
D. The box is too small.

[14]

### QUESTION 2

The grade 11 learners learn that there is more than one way to determine the resultant of two vectors. One way is the component method. They want to use this method to find the resultant of the forces acting on a bucket by the ropes from which the bucket is suspended. The bucket is stationary.

- 2.1 Draw the force diagram. (2)
- 2.2 The tension in rope P is 100N at an angle of  $30^\circ$  to the vertical and the tension in Q is 51,52N at  $45^\circ$  to the vertical.



Calculate the MAGNITUDE of the:

- 2.2.1 Horizontal components of P and Q respectively. (4)  
2.2.2 Vertical components of P and Q respectively. (4)  
2.2.3 Resultant of the horizontal components. (5)  
2.2.4 Resultant of the vertical components. (5)  
2.2.5 Resultant of the forces acting on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

# 2014 Physical Science March Question Paper Grade 11

**Roman Wölfel**



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underpaid overworked thwarted and diminished The assertive among us are labelled bitches while the expressive among us are considered shrill We are told to stand down when we have an opinion and to calm down when we are fired up And when we somehow manage to put one high heel battered foot in front of the other despite all of this we are asked if it would kill us to smile We are mad as hell and that's completely okay Because contrary to the endless barrage of self help rhetoric about anger management and letting go the reality is that our rage is the most important resource we have as women a force for creation rather than destruction our sharpest tool against both personal and political oppression Anger is not what gets in our way it is our way All we need to do is own it This is a pitch perfect engaging and accessible credo written by one of today's most influential feminists Analysing female anger as it relates to topics like self worth objectification pain care fear silence and denial Soraya illuminates how and why we repress our anger revealing the harm that this causes and helping us recognise the liberating power of owning our anger and marshalling it as a vital tool for positive change Just as Quiet brought about a new embrace of introversion Rage Becomes Her will bring about an embrace of feminine anger that will leave women feeling liberated inspired and connected to an entire universe of women who are no longer interested in making nice

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