

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 in a circular motion along a horizontal path.
B. An object moving in a circular motion along a vertical path.
C. An object moving in a circular motion along a horizontal path.
D. An object moving in a circular motion along a vertical path.
- 1.4 The inertia of an object...
- A. is a measure of its mass.
B. is a measure of its speed.
C. is a measure of its acceleration.
D. is a measure of its velocity.
- 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. r
B. $2r$
C. $3r$
D. $4r$
- 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 free-body diagram. (2)
- 2.2 The tension in rope P is 100N at an angle of 30° to the vertical and the tension in Q is 51,52N at 45° 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]

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**United States Civil Service
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The Diary of a Mad Public School Teacher David A. Hancock MA, 2017-07-21 Many are asking what is wrong with teaching learning schooling and education and what can be done You will get the answers panacea from the letters of a mad public school teacher intrepid irascible cantankerous provocative passionate thought provoking iconoclastic and enhanced with vitriolic demagoguery As a grad student colleague said Thanks for an enjoyable class on education issues in society I also enjoyed your letters to the editor Ive been told that I say what other people think Well you write and publish what were all thinking **School Science and Mathematics** ,1921 Class Specifications and Statements of Allocation Standards United States. Civil service commission. Personnel classification division, 1943 Research in Education ,1972 Position Classification Standards United States. Office of Personnel Management. Office of Classification, 1990 **Resources in Education** ,1997 **The Chemical News and Journal of Physical Science** ,1913 *Phi Delta Kappan* ,1923

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Psychology ,1929 Bulletin ,1960 Bulletin United States. Office of Education,1959 **Statistics of Land-grant Colleges and Universities** United States. Office of Education,1960 **Research in School and College Personnel Services** United States. Office of Education,1956 **Position-classification Standards for General Schedule (GS) Positions** United States Civil Service Commission. Bureau of Policies and Standards,1971 **Ideas for Teaching Science in the Junior High School** National Science Teachers Association,1963 **The College Board Review** ,1962

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