

## 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. A heavy object has more mass.  
B. A heavy object has more weight.  
C. A heavy object has more inertia.  
D. The heavy object has a smaller acceleration.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A heavy object is accelerating.  
B. When the net force acting on the object is zero.  
C. A heavy object is moving with a constant velocity.  
D. A heavy object is moving with a constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not experiencing any forces.  
B. An object is moving at a constant velocity.  
C. An object is not experiencing any forces.  
D. An object is moving with a constant velocity.
- 1.4 The inertia of an object...
- A. is a measure of its mass.  
B. is a measure of its weight.  
C. is a measure of its volume.  
D. is a measure of its density.
- 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.  $1/2r$   
D.  $1/4r$

- 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 net force is zero.  
B. The net force is 100N.  
C. The net force is 100N.  
D. The net force is 100N.

[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 Resultant of the components of P and Q horizontally.  
2.2.2 Resultant of the components of P and Q vertically.  
2.2.3 Resultant of the horizontal components.  
2.2.4 Resultant of the vertical components.  
2.2.5 Resultant of the forces acting on the bucket.

(4)

(4)

(5)

(5)

(5)

- 2.3 Calculate the mass of the bucket.

(3)

[14]

# Physical Science Grade 11 March Test

**David Kirk**



## Physical Science Grade 11 March Test:

**Michigan Educational Assessment Program Handbook** Michigan Educational Assessment Program, 1996  
*Research in Education*, 1974      **Resources in Education**, 1998      **The Chemical News and Journal of Physical Science**, 1907      Chemical News and Journal of Physical Science, 1887      **Chemical News and Journal of Physical Science** William Crookes, James H. Gardiner, Gerald Druce, H. W. Blood-Ryan, 1905      **Science Benchmarking Report**, 2001      *Phi Delta Kappan*, 1923      **Educational Research Bulletin**, 1924      **Chemical News and Journal of Industrial Science**, 1883      *Circular* United States. Office of Education, 1955      Energy Research Abstracts, 1986  
ERIC Educational Documents Index, 1966-69: Major descriptors, 1970      **School Bulletin** Minneapolis Public Schools, 1958      **Private Secondary Schools** Peterson's, 2011-05-01 Peterson's Private Secondary Schools is everything parents need to find the right private secondary school for their child This valuable resource allows students and parents to compare and select from more than 1 500 schools in the U S and Canada and around the world Schools featured include independent day schools special needs schools and boarding schools including junior boarding schools for middle school students Helpful information listed for each of these schools include school's area of specialization setting affiliation accreditation tuition financial aid student body faculty academic programs social life admission information contacts and more Also includes helpful articles on the merits of private education planning a successful school search searching for private schools online finding the perfect match paying for a private education tips for taking the necessary standardized tests semester programs and understanding the private schools admission application form and process      **Summer Jobs** United States Civil Service Commission, 1971      South African national bibliography, 1998 Classified list with author and title index      *Pratiyogita Darpan*, 2007-03 Pratiyogita Darpan monthly magazine is India's largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine      *Resources in Education*, 1997      *The college handbook* College Board, 1994-08 Now in its 32nd popular year this invaluable guide provides complete detailed information on all two and four year colleges in America This edition features expanded information on the new SAT and other topics of vital interest to families and students selecting a college Still the best resource of its kind Randax Education Guide

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