

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 small gravitational force.
 - B Large gravitational force.
 - C Small gravitational force.
 - D Large gravitational force.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A An object moving at constant velocity.
 - B An object falling vertically downwards.
 - C An object moving at constant velocity horizontally.
 - D An object moving vertically upwards.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object experiences no weight due to the gravity.
 - B An object has no weight due to the absence of the gravity.
 - C An object has no weight due to the absence of the gravitational force.
 - D An object experiences the same weight as it does on Earth.
- 1.4 The inertia of an object...
- A Is proportional to its mass.
 - B Is proportional to the gravitational force.
 - C Is proportional to any change in its motion.
 - D Is proportional to the gravitational force.
- 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 $r/2$
- B $r/4$
- C $3r/4$
- D $5r/4$

- 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 not in contact with the ground.
- B The box is not in contact with air.
- C The box is not in contact with water.
- D The box is not in contact with a wall.

[12]

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 Calculate the tension in rope P.

(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 component of the tension.
- 2.2.2 Vertical component of the tension.
- 2.2.3 Resultant of the horizontal components.
- 2.2.4 Resultant of the vertical components.
- 2.2.5 Resultant of the two tensions acting on the bucket.

(10)

(10)

(10)

(10)

(10)

- 2.3 Resultant of the forces of the bucket.

(2)

[16]

Physical Science Grade 11 March Control Test

AN Whitehead

Physical Science Grade11 March Control Test:

Research in Education ,1974 **A Textbook of Sports Science : TEST, EVALUATION, ACCREDITATION, MEASUREMENTS And STANDARDS (TEAMS)** DR. DEVINDER K. KANSAL,2021-07-23 CONTENTS IN BRIEF PREFACE
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Series ,1966 **Public Health Reports** ,1958 Resources in Education ,1997 Annual Report of the Agricultural Experiment Station of the University of Minnesota University of Minnesota. Agricultural Experiment Station,1914

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