

GRADE 12 PHYSICAL SCIENCES MARCH TEST

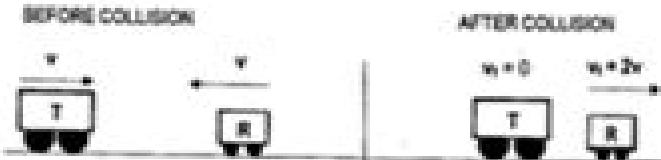
QUESTION 1

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 (1.1-1.7) on your folio paper. Example 1.8 D.

1.1 Which of the following pairs of compounds contains members of the same homologous series?

A $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$
 B $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$
 C $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$
 D $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$

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 moving at a constant acceleration
 C An object having a constant velocity
 D An object moving at a constant acceleration

1.3 Which of the statements below best describes Weightlessness?

A An object is under the influence of a gravitational field
 B An object is moving with a constant velocity
 C An object is moving with a constant acceleration
 D An object is moving with a constant velocity in a gravitational field of 0 m/s^2

1.4 The inertia of an object...

A is $\text{kg} \cdot \text{m/s}$
 B is $\text{kg} \cdot \text{m/s}^2$
 C is $\text{kg} \cdot \text{m/s}^2$ to the right of the object
 D is $\text{kg} \cdot \text{m/s}$ to the right of the object increasing

1.5 An astronaut has a weight W 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 (W) 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 Friction is less than 100N
 B Friction is greater than 100N
 C Friction is equal to 100N
 D Friction is not given

1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:

A Friction is less than 100N
 B Friction is greater than 100N
 C Friction is equal to 100N
 D Friction is not given

[14]

QUESTION 2

Three organic compounds (A, B and C) with different functional groups are given below.

A: 2,3-dimethylhex-2-ene



C: $\text{CH}_3\text{OH}(\text{D}_2\text{O})\text{CH}_3$

2.1 Name the functional groups of compound A and B and explain how each functional group can be used to form such a variety of organic compounds. (2)

2.2 Define the term functional group. (2)

2.3 Write down the:

2.3.1 Full name of compound A (2)

2.3.2 IUPAC name of compound B (2)

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Memorandum

CH Cherryholmes

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