

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 CNLY 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 CONTRACTOR
 - E CHICAGOST
 - C CONTRACTOR
 - D detailed to the
- 1.2 In which of the following cases would the resultant force acting on an object be equal to ON.



- A destinate of contract community
- 8 The Later Country of Paragon guidelines on the
- C Milder Linux and and engineering
- 1.3 Which of the statements below best describes Weightlessness?
 - A. Antiker wheel protected the sund for he past.
 - 8 students respectively and purposes to the goals.
 - C Andrew bed present conducting for the reality restricted
 - A reference contraction in the contraction of the C
- 1.4 The inertia of an object.....

XIII COLOR

- A Reservation to the contract of the contract
- 8 or the supported to be provided on
- In the surfacement of aborthoping in the sale, of colors,

- 1.5 An actronaut has a weight \(\begin{align*}
 \) on Earth. What distance, in terms of the radius of the Earth (r), will the actronaut be if his weight is a 14 of his weight (\begin{align*}
 \) on the surface of the Earth?
 - A ...
 - 8
 - C
 - 0 1
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
 - A Proposition According
 - Notice there is not the falls
 - C West of the Law Law 1979
 - D. more of the street
- 1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
 - A Mary line Comment
 - Seeding of these Services Const. (1985)
 - C Month Control of the state of the
 - B. Arterior Market

[34]

QUESTION 2

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

A: 2.3-dimethylhex-2-ene

C: OHOHOHIOHOH

- catton to form such a variety of organic compounds. (2)
- 2.2 Define the term functional group (2)
- 2.3 Write-down the:

 - 2.3., NAVAC name of compound B (2)

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web coordinates of v the standard coordinates are v 3 are the b 1 b are assumed if no other basis is speci ed this means v 3e1 4e2 4 5 2 if b fv1 v2 vng is a basis of rn then the matrix s which contains the vectors vk as column vectors is called the coordinate change matrix

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web and now that we know what d is we can now solve for a we can now solve for the transformation matrix with respect to the standard basis so to do that we have to figure out c and c inverse so c remember c is just the change of basis matrix and all that is is the basis vectors it s just a matrix with the basis vectors in the column

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