

## 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 1.6. D.

- 1.1 Which of the following pairs of compounds contains members of the same homologous series?
- A  $C_2H_6$  and  $C_3H_8$   
 B  $C_2H_6$  and  $C_3H_6$   
 C  $C_2H_4$  and  $C_3H_6$   
 D  $C_2H_4$  and  $C_3H_8$
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.



- A Reaction involving ethane and chlorine  
 B Iron(II) ions reacting with the cyanide ion  
 C An alkyl bromide reacting with a sulfide ion  
 D An alkene reacting with a secondary amine
- 1.3 Which of the statements below best describes Weightlessness?
- A An object in free fall under the influence of the force of gravity  
 B An object in free fall under the influence of the force of gravity  
 C An object in free fall under the influence of the force of gravity  
 D An object in free fall under the influence of the force of gravity
- 1.4 The inertia of an object ...
- A increases as the mass of the object increases  
 B increases as the applied force on the object increases  
 C is the resistance to acceleration for the object  
 D increases as the frictional force on the object increases.

- 1.5 An astronaut has a weight  $E_1$  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 ( $E_1$ ) on the surface of the Earth?

- A  $r$   
 B  $2r$   
 C  $4r$   
 D  $16r$

- 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 force is zero  
 B Friction force is more than 100N  
 C Friction force is less than 100N  
 D None of the above

- 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 force is zero  
 B Friction force is more than 100N  
 C Friction force is less than 100N  
 D None of the above

[14]

### QUESTION 2

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

- A: 2,3-dimethyl-2-one



- C:  $\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$

- 2.1 Write down the functional group of each of the above compounds. The carbon to form such a variety of organic compounds. (2)
- 2.2 Define the term functional group. (1)
- 2.3 Write down the:  
 2.3.1 IUPAC name of compound A (1)  
 2.3.2 IUPAC name of compound B (2)

# Grade 1march Control Test 2physical Science Paper 1

**Chao Zhang**



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couchi). Order: Salientia Family: Pelobatidae (spadefoots) Other common name: spadefoot toad. Spanish names: sapo con espuelas ... Spadefoot toad | burrowing, nocturnal, desert 3 days ago — All spadefoot toads are classified in the family Pelobatidae. Spadefoot toads have a broad, horny “spade” projecting from the inside of each Pelobatidae - European Spadefoot Toad Family - Apr 21, 2017 — The family Pelobatidae is the European Spadefoot toads but they aren't just found in Europe, they are also found in Asia and Northern Africa. Self-Help Resources / Guardianship and Conservatorship Requirements of a Guardian or Conservator of a Minor · Reports required from the conservator · Moving a conservatorship · Withdrawing funds in a restricted ... Guardianship of a Minor This page is for the appointment by the district court of an individual to serve as guardian of a minor child. Its primary focus is on procedures when ... Guardianship Guardianship is a legal process that allows someone (usually a family member) to ask the court to find that a person age 18 or older is unable (incompetent) ... Office of Public Guardian - Utah Aging and Adult Services The Office of Public Guardian (OPG) provides guardianship and conservatorship services for adults\* who are unable to make basic life decisions for ... Guardianship Associates of Utah We provide direct guardianship and conservator services, as well as trust management and executor services for Special Needs Trusts. We are also passionate in ... Guardianship & Conservatorship Dec 6, 2017 — A conservatorship and guardianship allows someone to act for someone else. They cannot be created without an order by a judge. Guardianships and Conservatorships in Utah In Utah, a guardian primarily has the court-appointed power to provide for the physical well-being of a protected person and a conservator is the court- ... Considering Guardianship Guardianship is a court process. The State of Utah allows for two types of guardianship. These include a plenary (full) or limited guardianship. A Plenary ... Information — Guardianship Associates of Utah Guardianship is surrogate decision making for a person who is over the age of 18 and is unable to make decisions due to some level of incapacity. How to Get Guardianship of a Child in Utah Traditional guardianship. The interested adult files a court petition directly with the help of Heber lawyers to the county district court where the minor lives ... Honourably Wounded: Stress Among Christian Workers Honourably Wounded is an excellent help for Christian workers who have served cross-culturally. It offers help on stress from interpersonal relationships, re- ... Honourably Wounded: Stress Among Christian Workers Honourably Wounded is an excellent help for Christian workers who have served cross-culturally. It offers help on stress from interpersonal relationships, re- ... Honourably wounded - Stress Among Christian Workers Honourably wounded - Stress Among Christian Workers (Book Review) · The Lords' Report on Stem Cells - Selective With the Truth · Goldenhar Syndrome - A Tragic ... Honourably Wounded - Stress Among Christian Worker Picture of Honourably Wounded. Honourably Wounded. Stress Among Christian Workers. By Marjory F. Foyle. View More View Less. Paperback. \$10.99. (\$13.99). Honourably Wounded: Stress Among Christian Workers Dr Marjory Foyle draws upon her extensive clinical experience and her work as a missionary to address a range of important topics: Depression; Occupational ... Honorably Wounded: Stress Among Christian

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