

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 Ethanol and butane
 B Ethanol and propanoic acid
 C Ethanol and propanal
 D Ethanol and butanoic acid
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.



- A An object moving with constant acceleration.
 B An object moving with constant speed in a straight line.
 C An object moving with constant speed in a circular path.
 D An object moving with constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object moves at constant velocity through the air.
 B An object moves at constant velocity through water.
 C An object moves at constant velocity through the air and water.
 D An object moves at constant velocity through the air and water.
- 1.4 The inertia of an object...
- A increases as the object's velocity increases.
 B increases as the object's mass increases.
 C increases as the object's acceleration increases.
 D increases as the object's speed increases.

- 1.5 An astronaut has a weight E_E 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_E) 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 The box is too heavy.
 B The box is too light.
 C The box is too big.
 D The box is too small.
- 1.7 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 too heavy.
 B The box is too light.
 C The box is too big.
 D The box is too small.

[14]

QUESTION 2

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

A: 2,3-dimethyl-2-one



C: $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

- 2.1 Write down the functional group of compound A. (1)
 Write down the functional group of compound B. (1)
 Write down the functional group of compound C. (1)
- 2.2 Define the term functional group. (2)
- 2.3 Write down the IUPAC name of compound B. (2)

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Karin Nielsen-Saines



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Physical Science Mr. Rohit Manglik, 2024-07-15 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels School Science Practical Work in Africa Umesh Ramnarain, 2020-06-01 School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research informed practices on school science practical work The book highlights trends and patterns in the enactment and role of practical work across African countries Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry based learning which signals a definite paradigm shift from the traditional teacher dominated to a learner centered approach The book provides empirical research on approaches to practical work contextual factors in the enactment of practical work and professional development in teaching practical work This book will be of great interest to academics researchers and post graduate students in the fields of science education and educational policy Harcourt Science: Physical science, [grade] 4, Units E and F, teacher's ed. [v. 18]. Life science, [grade] 5, Units A and B, teacher's ed, 2000 *Resources in Education*, 1996 *The American School Board Journal* William George Bruce, William Conrad Bruce, 1923 **Journal of Education**, 1882 *Bihar STET Paper II : Home Science 2024* Edugorilla Prep Experts, Best Selling Book for Bihar STET Paper II Home Science comes with objective type questions as per the latest syllabus given by the Bihar School Examination Board BSEB Bihar STET Paper II Home Science Preparation kit comes with 10 Practice Tests with the best quality content Increase your chances of selection by 16X Bihar STET Paper II Home Science comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts Physics, a Basic Science Elmer Ellsworth Burns, 1954

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education The last section draws conclusions regarding the natures of the disciplines challenges and advantages of STEM education in terms of theoretical and practical implications The two final chapters compile arguments from the research chapters describing themes in research results and making recommendations for best STEM education practice and examining areas for future research in STEM education

Popular Science ,2005-09 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better Te HS&T a Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02 Drawing for Science Education Phyllis Katz,2017-03-23 This book argues for the essential use of drawing as a tool for science teaching and learning The authors are working in schools universities and continual science learning CSL settings around the world They have written of their experiences using a variety of prompts to encourage people to take pen to paper and draw their thinking sometimes direct observation and in other instances their memories The result is a collection of research and essays that offer theory techniques outcomes and models for the reader Young children have provided evidence of the perceptions that they have accumulated from families and the media before they reach classrooms Secondary students describe their ideas of chemistry and physics Teacher educators use drawings to consider the progress of their undergraduates understanding of science teaching and even their moral ethical responses to teaching about climate change Museum visitors have drawn their understanding of the physics of how exhibit sounds are transmitted A physician explains how the history of drawing has been a critical tool to medical education and doctor patient communications Each chapter contains samples insights and where applicable analysis techniques The chapters in this book should be helpful to researchers and teachers alike across the teaching and learning continuum The sections are divided by the kinds of activities for which drawing has historically been used in science education An instance of observation Audubon Linnaeus A process how plants grow over time what happens when chemicals combine Conceptions of what science is and who does it Images of identity development in science teaching and learning

Los Angeles Magazine ,2003-11 Los Angeles magazine is a regional magazine of national stature Our combination of award winning feature writing investigative reporting service journalism and design covers the people lifestyle culture entertainment fashion art and architecture and news that define Southern California Started in the spring of 1961 Los Angeles magazine has been addressing the needs and interests of our region for 48 years The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian

Army-Navy-Air Force Register and Defense Times ,1906 **English Mechanic and Mirror of Science and Art** ,1879 Los Angeles Magazine ,2005-06 Los Angeles magazine is a regional magazine of national stature Our combination of award winning feature writing investigative reporting service journalism and design covers the people lifestyle culture entertainment fashion art and architecture and news that define Southern California Started in the spring of

1961 Los Angeles magazine has been addressing the needs and interests of our region for 48 years The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian

The Journal of the National Education Association National Education Association of the United States,1928

Holt Science and Technology Holt Rinehart & Winston,2004-02

Normal Instructor ,1910

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