

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 A constant number of different ions are released.
 B A constant number of different ions are released, but the number of different ions is not constant.
 C An infinite number of different ions are released, but the number of different ions is not constant.
 D An infinite number of different ions are released, but the number of different ions is constant.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of weight and is not subject to any forces.
 B An object is free of weight and is not subject to any forces.
 C An object is free of weight and is not subject to any forces.
 D An object is free of weight and is not subject to any forces.
- 1.4 The inertia of an object...
- A is a measure of the object's mass.
 B is a measure of the object's velocity.
 C is a measure of the object's acceleration.
 D is a measure of the object's displacement.

- 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 $8r$

- 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 and the name of the cation 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 IUPAC name of compound B (2)
 2.3.2 IUPAC name of compound C (2)

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Resources in Education ,2000-10 *Research in Education* ,1973 *Search and research* Ana GARCÍA-VALCÁRCEL, Francisco José GARCÍA PEÑALVO, Marta MARTÍN DEL POZO,2017-06-27

Description: Resumen Inglés The present volume represents a compilation of international teacher

education practice and research with a focus on Teacher Education for Contemporary Contexts It draws upon the diverse educational perspectives teaching procedures knowledge and situated contexts where the discipline takes shape The sections of this book comprise research papers accepted for presentation during the 18th International Study Association on Teachers and Teaching ISATT Biennial Conference that will take place from July 3rd to July 7th in Salamanca Spain Around 300 delegates from 57 countries across the globe and a large Scientific Committee of 80 colleagues have contributed academically and professionally to support our ability to share the contents of this volume The main conference topic is search and research Searching is the action of looking carefully at people objects and situations in order to find something concealed or to discover something beyond the ordinary This is what teachers do in their classrooms and primarily search represents their endeavours to construct professional knowledge as a result of developing practice Researching is systematic inquiry that intends to discover new knowledge and or to refute educational theories a process typically rendered by teacher educators and other researchers The focus of this 18th biennial ISATT conference is to bring together both search and research connecting practice and theory or praxis with the purpose of offering relevant solutions to realistic classroom problems The editorial process followed three differentiated phases The first phase required abstract submission with the purpose of being accepted for the conference A double or triple blind review was conducted to evaluate whether the papers submitted were suitable for the conference A rate of 87% of the papers were accepted for presentation The second phase encouraged authors to voluntarily submit a full paper of 3 000 words A total of 111 full papers were then subjected to an open review process with the main purpose of suggesting to authors ways of further improving the presentation of their valuable research A third phase not yet completed and therefore beyond the scope of this book was the review and selection of the outstanding papers papers that were deemed eligible for the post proceeding publication i e less than 15% of the total The central intent of the book is to contribute to fostering scholarly discussions and to inform future teaching trajectories strengthen lines of research in teacher education and demonstrate the opportunities and constraints in our professional work Its added value highlights the commonplace in international research that serves to depict how the field of teacher education is moving forward in an increasingly global society All in all teachers teacher educators and researchers learn by effective communication processes whether in in personal professional interactions or in the use of digital technologies Positive interactions lead to building strong communities of learners which in turn leads to the production of valuable knowledge and better understandings about learning and teaching With the upcoming commemoration of its 800th anniversary in the year 2018 the University of Salamanca as the oldest university in operation in Spain is proud to host the ISATT 18th biennial conference and to support the exceptional work of many researchers in the field of Teacher Education by compiling and editing the work in this volume Furthermore the local Organizing Committee and the ISATT Executive Committee hope you will experience a rewarding intellectual experience as a result of your contributions and knowledge as both academics and

practitioners Thank you very much for providing us this exciting opportunity to work with you We warmly welcome you to Salamanca a truly historic and a contemporary context

Descripci n Resumen Espa ol Castellano El presente volumen est integrado por una recopilaci n de pr cticas e investigaciones internacionales de formaci n docente centradas en la formaci n de profesores en la sociedad actual Se basa en las diversas perspectivas educativas los procedimientos de ense anza conocimiento y contextos sociales Las secciones de este libro comprenden trabajos de investigaci n aceptados para su exposici n en las XVIII Conferencia Bienal Internacional de Estudios de Profesores y Ense anza ISATT que tendr lugar del 3 al 7 de julio en Salamanca Espa a Alrededor de 300 delegados de 57 pa ses de todo el mundo y un gran Comit Cient fico de 80 colegas han contribuido acad mica y profesionalmente en favor de este evento El tema principal de la conferencia es la b squeda y la investigaci n Buscar es la acci n de mirar cuidadosamente a las personas objetos y situaciones para encontrar algo escondido o descubrir algo m s all de lo ordinario Esto es lo que los maestros hacen en sus clases y sobre todo la b squeda representa sus esfuerzos para construir conocimiento profesional como resultado del desarrollo de la pr ctica cotidiana La investigaci n es una investigaci n sistem tica que pretende descubrir nuevos conocimientos y o refutar teor as educativas un proceso que suelen dar los educadores de profesores y de otros investigadores El objetivo de esta 18 conferencia ISATT es reunir tanto la b squeda como la investigaci n conectando la pr ctica y la teor a o praxis con el prop sito de ofrecer soluciones relevantes a los problemas reales de la clase El proceso editorial sigui tres fases diferenciadas 1 Requerir el env o de res menes con el prop sito de que fuesen aceptados para la ser expuestos en la conferencia Se realiz una revisi n doble ciego o triple para evaluar si los art culos presentados eran adecuados Se acept una tasa de 87% de los trabajos para su presentaci n 2 La segunda fase requiri de los autores en env o en per odo voluntario de un trabajo completo de 3 000 palabras Un total de 111 trabajos fueron sometidos a un proceso de revisi n abierta con el prop sito principal de sugerir a los autores formas de mejora 3 Una tercera fase a n inconclusa y por lo tanto fuera del alcance de este libro fue la revisi n y selecci n de los documentos pendientes los documentos que se consideraron electos para la publicaci n posterior al procedimiento es decir menos del 15% del total La intenci n central de esta obra es contribuir a fomentar el debate acad mico e informar sobre futuras trayectorias de ense anza fortalecer las l neas de investigaci n en la formaci n del profesorado y demostrar las oportunidades y limitaciones en nuestro mbito Su valor es el de destacar el lugar com n en la investigaci n internacional que sirve para describir c mo el campo de la formaci n de maestros avanza en una sociedad cada vez m s global En general los maestros los educadores de educadores y los investigadores aprendan mediante procesos de comunicaci n eficaces ya sea en interacciones personales profesionales o en el uso de tecnolog as digitales Las interacciones conducen a la construcci n de comunidades fuertes de estudiantes que a su vez conduce a la producci n de conocimientos valiosos y mejores sobre el aprendizaje y la ense anza Con la pr xima conmemoraci n de su 800 aniversario en el a o 2018 la Universidad de Salamanca como la decana de las espa olas se enorgullece en acoger la XVIII Conferencia Bienal de ISATT y

apoyar el trabajo excepcional de muchos investigadores en el campo del Profesor Educaci n Investigador editando la obra Adem s el Comit Organizador Local y el Comit Ejecutivo de ISATT esperan que experimente una lectura gratificante como resultado de sus contribuciones y conocimientos tanto acad micos como profesionales Muchas gracias por brindarnos esta emocionante oportunidad de trabajar con usted Les damos la bienvenida a Salamanca un contexto verdaderamente hist rico y a su vez contempor neo

Marking Matric Vijay Reddy,2006 The past ten years in South Africa has seen many changes in education the creation of a single department of education common examinations for all learners in public schools in the country a new outcomes based education curriculum which was introduced to learners in the general education and training phase since 1998 and will be introduced to the further education and training phase from 2006 To evaluate the success of these changes South African researchers still use the indicator of student achievement The matriculation examination is the visible high profile and public performance indicator Every year parents learners teachers researchers government officials policymakers and the general public get involved in the debate around the matric examination with the most frequently asked questions being Did the pass rate go up Are standards dropping Are the results real or have they been manipulated How is our education system doing Are we meeting the development goals What should the matriculation examination of the future look like participants from government national and provincial

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