OCTOBER - 2014

[Marks: 70

Time: 3 hrs.l

#### SECTION - I

Q. 1. Select and write the most appropriate answers from the given alternatives for each sub-question:

[7]

- (i) The Arrhenius equation is (a)  $k = A e^{E_a}$ (d)  $k = A e^{\frac{-E_s}{RT}}$ (c)  $k = A e^{-E_a}$
- (ii) If the enthalpy of vaporisation of water at 100oC is 186.5 J. mol-1, the entropy of vaporization will be (b) 3.0 J . K<sup>-1</sup>, mol<sup>-1</sup>

(a) 4.0 J . K<sup>-1</sup>, mol<sup>-1</sup> (c) 1.5 J , K-1, mol-1

(d) 0.5 J . K<sup>-1</sup>, mol<sup>-1</sup>

(iii) The atomicity of sulphur in orthorhombic sulphur is \_\_\_ (b) 6

(a) 8:

(d) 2

(iv) The major binding force in diamond is \_\_\_

(a) Covalent bond (c) Metallic bond

(b) Ionic bond (d) Co-ordinate covalent bond

(v) The boiling point of water at high altitude is low, because

(a) the temperature is low.

(b) the atmospheric pressure is low.

(c) the temperature is high.

- (d) the atmospheric pressure is high.
- (vi) The molar conductivity of cation and anion of salt BA are 180 and 220 mhos respectively. The molar conductivity of salt BA at infinite dilution is \_\_ (a) 90 mhos.cm<sup>2</sup>. (b) 110 mhos.cm<sup>2</sup>.mol<sup>-1</sup>

(c) 200 mhos.cm<sup>2</sup>.mol<sup>-1</sup>

- (d) 400 mhos.cm<sup>2</sup>.mol<sup>-1</sup>
- (vii) What is the process in which concentrated ore is reduced to the corresponding metal by heating at high temperature with a reducing agent? (a) Polling (b) Pyrometallurgy (c) Hydrometallurgy (d) Calcination
- Q. 2. Answer any THREE of the following:

[9]

(i) Describe anomalous behaviour of oxygen as compared with other elements of group 16 with reference to -

(a) Magnetic property

(b) Oxidation state (c) Hydrides

- (ii) What is the value of ΔS<sub>surr</sub> for the following reaction at 298 K  $6CO_{2(g)} + 6H_2O_{(f)} \longrightarrow C_6H_{12}O_{6(g)} + 6O_{2(g)}$ Given that :  $\Delta G^{\circ} = 2879 \text{ kJ mol}^{-1}$ ,  $\Delta S = -210 \text{ JK}^{-1} \text{ mol}^{-1}$ .
- (iii) Sucrose decomposes in acid solution to give glucose and fructose according to the first order rate law. The half life of the reaction is 3 hours. Calculate fraction of sucrose which will remain after 8 hours.
- (iv) A solution containing 0.73 g of camphor (molar mass 152 g . mol⁻¹) in 36.8 g of acetone (boiling point 56.3°C) boils at 56.55°C. A solution of 0.564 g of unknown compound in the same weight of acetone boils at 56.46oC. Calculate the molar mass of the unknown compound.

# **2014 Hsc Science Question Paper**

**M** Tight

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Materialities of Age and Ageing: Concepts of a Material Gerontology Grit Höppner, Monika Urban, 2019-06-18 In gerontological research the understanding of age and ageing changed in the last decade Biologic determined explanations no longer prevail in this research field Instead ideas of social constructivism are frequently used These ideas define the state of age and the process of ageing as social constructions steeping ageing in social and cultural assumptions ascriptions and expectations From a social constructivist perspective age and ageing are not just identified as dependency deficit and need for care as it was foremost accelerated from a biological perspective but with the life course and thus with individual lifestyles experiences attitudes and practices as well as institutional and economic structures A prominent social constructivist concept is doing age Similar to doing gender the concept of doing age assumes age as taking place in the form of a social praxis within everyday life interactions between people and thus in performances embedded in discourses through which social hierarchies and ideals proceed Despite the paradigm shift that social constructivist concepts enable in gerontological thinking they reveal their blind spot when it comes to the materiality of ageing and thus to fleshy sensual experiences human and non human ontologies and agencies Addressing these materialities of ageing brings up its own critique on definitions of ageing bodies and material environments This framing does not presume that age and ageing are solely products of human to human interactions or those of formative environments or of discourses Rather humans non humans and discourses become essential parts of ageing processes Such a material framing enables us new insights into forms of age and ageing and thus offers an opportunity for scholars to engage critically with materialities of age and ageing This eBook explores theoretical methodological and empirical concepts of such a Material Gerontology

Knowledge-building Karl Maton, Susan Hood, Suellen Shay, 2015-10-08 Education and knowledge have never been more important to society yet research is segmented by approach methodology or topic Legitimation Code Theory or LCT extends and integrates insights from Pierre Bourdieu and Basil Bernstein to offer a framework for research and practice that overcomes segmentalism This book shows how LCT can be used to build knowledge about education and society Comprising original papers by an international and multidisciplinary group of scholars Knowledge building offers the first primer in this fast growing approach Through case studies of major research projects Part I provides practical insights into how LCT can be used to build knowledge by enabling dialogue between theory and data in qualitative research bringing together quantitative and qualitative methodologies in mixed methods research relating theory and practice in praxis conducting interdisciplinary studies with systemic functional linguistics Part II offers a series of studies of pressing issues facing knowledge building in education and beyond encompassing diverse subject areas including physics English cultural studies music and design

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reviews Comprehensive inclusion of literature review tools including concept analysis scoping and mapping With an emphasis on the practical skills this guide is essential for any student or researcher needing to get from first steps to a successful literature review Methods of Engagement of Dementia Care Users in Research and Practice Development W. George Kernohan, Suzanne Timmons, Anthea Innes, David Edvardsson, 2025-10-23 Dementia is a complex and chronic condition associated with significant physical cognitive and emotional challenges. The burden of dementia weighs not only on people living with dementia but also on their families and caregivers The development of new effective and sustainable dementia care interventions therefore requires the active engagement of all service users in research studies and in the implementation of research findings in the dementia care practice while ensuring that interventions are tailored to meet individual needs and preferences However there remains a need to build innovative methods to engage service users in the development and evaluation of dementia care interventions The goal of this Research Topic is to explore and advance the use of innovative methods to engage dementia care users in research and practice development Specifically we aim to highlight best practices and approaches to involving people living with dementia and their families in the design implementation and evaluation of dementia care interventions with a focus on participatory co design and other collaborative approaches to research and practice development We welcome the submission of any type of manuscript supported by the journal including Original Research Review etc addressing a range of topics related to stakeholder engagement in the development and evaluation of dementia care interventions These topics may include but are not limited to the following The design and implementation of participatory co design or other collaborative approaches to research and practice development in dementia care including methods to identify and prioritize the needs and preferences of dementia care users and their families The role of patient and public involvement PPI in the development and evaluation of dementia care interventions including the evaluation of PPI approaches and their impact on intervention design and outcomes Strategies to engage and support caregivers in the co design and evaluation of dementia care interventions including best practices in recruitment training and building capacity The evaluation of the impact of stakeholder engagement on the acceptability feasibility effectiveness and sustainability of dementia care research and interventions Ethical and practical considerations in the use of participatory and co design approaches to dementia care research and practice development Suitable theoretically sound frameworks to inform and guide the engagement of people with dementia and their family members in research that intends to enhance their lives Active and Healthy Aging and Quality of Life: Interventions and Outlook for the Future, volume II Shekhar Chauhan, Petra Heidler, David Jean Simon, 2024-09-10 The continuous growth of older populations as a consequence of demographic changes is a huge global challenge The growing proportion of older adults not only burdens the healthcare system specifically in developing countries but also posits a challenge at the household level specifically in nuclear and one person households For societies as a whole to avoid costly and negative effects it is crucial to increase their

knowledge of how to promote good health among older adults so that they can live longer and enjoy a better quality of life Active aging is the process of optimizing opportunities for health participation and security in order to enhance quality of life as people age An active and healthy life has remained one of the most important aspirations for all people both young and older adults alike This ambition has become a genuine possibility for many due to a rising life expectancy among people of diverse attributes across the world While celebrating longer life and more financial security in later life than ever before we need to challenge how these aspirations can be sustained through our own behavioral responses and through public policy institutional reforms and innovations. The challenge is to identify recommend and promote strategies and interventions that stimulate and sustain the activity independence and health of people of all ages especially older adults and in the process promote the well being and quality of life of people and make public welfare systems more sustainable Michels (Journalist), 2008 MEDINFO 2017: Precision Healthcare through Informatics Marie-Christine Jaulent, Dongsheng Zhao, 2018-01-15 Medical informatics is a field which continues to evolve with developments and improvements in foundational methods applications and technology constantly offering opportunities for supporting the customization of healthcare to individual patients This book presents the proceedings of the 16th World Congress of Medical and Health Informatics MedInfo2017 held in Hangzhou China in August 2017 which also marked the 50th anniversary of the International Medical Informatics Association IMIA The central theme of MedInfo2017 was Precision Healthcare through Informatics and the scientific program was divided into five tracks connected and digital health human data science human organizational and social aspects knowledge management and quality and safety and patient outcomes The 249 accepted papers and 168 posters included here span the breadth and depth of sub disciplines in biomedical and health informatics such as clinical informatics nursing informatics consumer health informatics public health informatics human factors in healthcare bioinformatics translational informatics quality and safety research at the intersection of biomedical and health informatics and precision medicine The book will be of interest to all those who wish to keep pace with advances in the science education and practice of biomedical and health informatics worldwide **Universities Handbook** .2014

Engaging Curriculum Bill Green, 2017-09-18 Explicitly linking curriculum inquiry to English education via recurring themes of representation democracy and knowledge this book is a call for both researchers and practitioners to engage with curriculum explicitly and deliberatively as both a concept and a question The approach is broadly conceptual and constitutes an exercise in theoretical and philosophical inquiry While deeply informed by North American debates and developments this book offers a distinctive counterpoint and a strategically ex centric perspective being equally informed by the curriculum scene in Australia as well as the UK and elsewhere Divided into two sections this book first addresses matters of general curriculum inquiry while the second turns more specifically to English teaching and to associated questions of language literacy and literature in L1 education Green brings the two together through a critical examination of the Australian national

Science and Technology Education and Future Human Needs J. L. Lewis, P. J. Kelly, 2014-05-17 Science and Technology Education and Future Human Needs is a collection of papers that tackle concerns in the education of future scientists particularly concerns in identifying techniques and resource material The title first covers the impact of science on society and then proceeds to tackling the relevance of science Next the selection talks about the revision of science curricula Chapter 4 deals with science education and the needs of developing countries while Chapter 5 talks about problems in implementation The sixth chapter covers the balance between technology and environment in development and the seventh chapter tackles the nutritional concerns in national development In the last chapter the text talks about addressing human needs first before developing science and technology The book will be of great interest to individuals concerned with the progress of science and technology Psicología organizacional en Latinoamérica Herman Frank Littlewood Zimmerman, Jesús Felipe Uribe Prado, 2018-01-01 Los libros sobre psicolog a organizacional la mayor a de las veces s lo describen las actividades t picas del rea como la descripci n medici n explicaci n y cambio del comportamiento en el trabajo pero en la obra Psicolog a organizacional en Latinoam rica se analiza m s all pues presenta las posturas actuales y hallazgos te ricos y pr cticos de l deres latinoamericanos que trabajan como consultores acad micos e investigadores El libro ha sido estructurado en cinco grandes partes de conocimiento aplicado a psicolog a del trabajo y las organizaciones aplicada a la administraci n del capital humano b liderazgo y habilidades sociales c factores psicosociales y salud ocupacional d conductas contraproductivas y e cambio organizacional La lectura y consulta de este libro se recomienda tanto a estudiantes de psicolog a administraci n y carreras relacionadas con el comportamiento organizacional as como a practicantes y consultores pues se encontrar n puntos de vista recomendaciones instrumentos de medici n y diagn stico adem s de resultados de investigaciones recientes con implicaciones aplicables a la pr ctica organizacional en el contexto latinoamericano

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