

### May 2009 TZ1 Question 1

- (b) For part of her extended essay investigation into the efficiency of the process, a student reacted a pure sample of a vegetable oil (where  $R = C_{17}H_{33}$ ) with methanol. The raw data recorded for the reaction is below.

|                            |            |
|----------------------------|------------|
| Mass of oil                | = 1013.0 g |
| Mass of methanol           | = 200.0 g  |
| Mass of sodium hydroxide   | = 3.5 g    |
| Mass of biodiesel produced | = 811.0 g  |

The relative molecular mass of the oil used by the student is 885.6. Calculate the amount (in moles) of the oil and the methanol used, and hence the amount (in moles) of excess methanol.

[3]

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### May 2009 TZ2 Question 1

- (b) A student reacted some salicylic acid with excess ethanoic anhydride. Impure solid aspirin was obtained by filtering the reaction mixture. Pure aspirin was obtained by recrystallization. The following table shows the data recorded by the student.

|                               |                   |
|-------------------------------|-------------------|
| Mass of salicylic acid used   | $3.15 \pm 0.02$ g |
| Mass of pure aspirin obtained | $2.50 \pm 0.02$ g |

- (i) Determine the amount, in mol, of salicylic acid,  $C_6H_4(OH)COOH$ , used.

[2]

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- (ii) Calculate the theoretical yield, in g, of aspirin,  $C_6H_4(OCOCH_3)COOH$ .

[2]

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# May 2009 Chemistry Sl Paper

**N Noddings**



## May 2009 Chemistry Sl Paper :

*UNEP Year Book 2010* Unep,2010-04-22 The UNEP Year Book 2010 is essential informative and authoritative reading and reports on new environmental science plus recent developments in our changing environment It looks at progress in environmental governance the effects of continuing degradation and loss of the world s ecosystems impacts of climate change how harmful substances and hazardous waste effect human health and the environment environmentally related disasters and conflicts and unsustainable use of resources Water is a recurrent theme in this seventh edition Each chapter considers water related environmental changes together with a number of challenges and opportunites **Technical Assessment of Dry Ice Limits on Aircraft** Michael John Murphy,T. I. McSweeney,2013 TRB s Hazardous Materials Cooperative Research Program HMCRP Report 11 Technical Assessment of Dry Ice Limits on Aircraft describes a technical approach to determining the maximum quantity of dry ice that may be safely carried aboard aircraft The report includes guidelines for helping to determine safe limits for carriage of dry ice on commercial airplanes and a CD ROM based software tool designed to assist in determining appropriate dry ice loadings The CD ROM is packaged with the print version of the report Publisher s description *Energy Options Impact on Regional Security* Frano Barbir,Sergio Ulgiati,2010-09-02 Energy appears to be a fundamental driving force of economic and political strategies as well as planetary stability Energy related issues such as 1 the availability of new energy sources and viable technologies 2 the disparity in access to energy sources 3 the role of energy in our societies energy societal metabolism 4 the energy support to the life of our cities where about half of world population is going to live very soon and 5 the energy demand for food security all over the world are hot problems that humans will have to face within the framework of sustainability ecologically sound production and consumption patterns associated with socially acce able life styles in terms of policies technological development and economic processes A coherent energy strategy is required addressing both energy supply and demand security of access development problems equity market dynamics by also taking into account the whole energy lifecycle including fuel production transmission and distribution energy conversion and the impact on energy equipment manufacturers and the end users of energy systems Issues of energy efficiency and rebound effect must also be taken into proper account In the short term the aim should be to achieve higher energy efficiencies and increased supply from local energy sources in particular renewable energy sources **Euro-Par 2011: Parallel Processing Workshops** Michael Alexander,Pasqua D'Ambra,Adam Belloum,George Bosilca,Mario Cannataro,Marco Danelutto,Beniamino Di Martino,Michael Gerndt,Emmanuel Jeannot,Raymond Namyst,Jean Roman,Stephen L. Scott,Jesper Larsson Traff,Geoffroy Vallee,Josef Weidendorfer,2012-04-14 This book constitutes thoroughly refereed post conference proceedings of the workshops of the 17th International Conference on Parallel Computing Euro Par 2011 held in Bordeaux France in August 2011 The papers of these 12 workshops CCPI CGWS HeteroPar HiBB HPCVirt HPPC HPSS HPCF PROPER CCPI and VHPC focus on promotion and advancement of

all aspects of parallel and distributed computing *Journal of the Indian Chemical Society* Indian Chemical Society, 2009

Sustainable Value Creation in the Fine and Speciality Chemicals Industry R. Rajagopal, 2014-06-12 The global fine and speciality chemicals industry is a vital segment within the chemical value chain catering to a multitude of societal and industrial needs Regulatory sustainability and consumer forces have been constantly shaping the business fundamentals of this industry Developing value creation strategies which embed economic environmental and social sustainability components will need a comprehensive assessment of business scientific and technological challenges facing the industry Sustainable Value Creation in the Fine and Speciality Chemicals Industry assesses sustainable value creation options against the backdrop of global mega trends that are defining the present and future course of the industry It discusses innovative strategies in feedstocks R D technology manufacturing resource management and the supply chain as well as the significance of the bio based chemical economy in enabling sustainable value creation in the fine and speciality chemicals industry Topics covered include Transformation in the fine and speciality chemicals business Sustainable management evolution transitions and tools Research and technology directions Resource optimization strategies Bio based chemicals specialities and polymers Sustainable practices in the fine and speciality chemicals industry Sustainable value creation strategies Sustainable Value Creation in the Fine and Speciality Chemicals Industry presents a comprehensive overview of strategic options for sustainability management in the global fine and speciality chemicals industry It will be a valuable resource for chemists and chemical engineers involved in the design and development of economically environmentally and socially sustainable practices for the future Applied Spectroscopy, 2009 *Who's Who in Science and Engineering 2008-2009* Who's Who Marquis, Marquis Who's Who, 2007-12 Epigenetics in the Age of Twitter Gerald Weissmann, 2012-03-06 America's most interesting and important essayist Eric Kandel Nobel Prize winning author of *The Age of Insight* Gerald Weissmann bridges the space between science and the humanities and particularly between medicine and the arts with wit erudition and most important wisdom Adam Gopnik *Epigenetics* which attempts to explain how our genes respond to our environment is the latest twist on the historic nature vs nurture debate In addressing this and other controversies in contemporary science Gerald Weissmann taps what he calls the social network of Western Civilization including the many neglected women of science from the martyred Hypatia of Alexandria the first woman scientist to the Nobel laureates Marie Curie Christiane Nusslein-Volhard and Elizabeth Blackburn among other luminaries in the field Always instructive and often hilarious this is a one volume introduction to modern biology viewed through the lens of contemporary mass media and the longer historical tradition of the Scientific Revolution Whether engaging in the healthcare debate or imagining the future prose styling of the scientific research paper in the age of Twitter Weissmann proves himself as an incisive cultural critic and satirist Gerald Weissmann August 7 1930 July 10 2019 was a physician scientist editor and essayist whose collections include *The Fevers of Reason* *New and Selected Essays* *Epigenetics in the Age of Twitter* *Pop Culture and Modern Science* *Mortal and Immortal*

DNA Science and the Lure of Myth and Galileo's Gout Science in an Age of Endarkenment *Science* John Michels (Journalist), 2011 **Indian Science Abstracts**, 2011 **Steam Generators for Nuclear Power Plants** Jovica Riznic, 2025-09-01 Steam Generators for Nuclear Power Plants Second Edition continues its legacy of examining all phases of the lifecycle of nuclear steam generators NSGs components which are essential for the efficient and safe operation of nuclear reactors This book is broken into three sections design and manufacturing operation and maintenance and emerging topics This revised edition includes new chapters on fitness for service guidelines VVER steam generators leakage through cracked tubes secondary side components full bundle probabilistic analysis maintenance of steam generators probabilistic models for steam generator life cycle predictions steam generators for small modular and advanced nuclear reactors and much more This timely revision serves as a resource for professionals involved in all phases of the NSG lifecycle from design manufacturing operation and maintenance to fitness for service and long term operation It is also intended as a valuable resource for students and researchers interested in a range of topics relating to NSG lifecycle management Presents state of the art steam generators for current and advanced nuclear power plants and small modular and micro reactors Contains comprehensive coverage of all phases of the nuclear steam generator lifecycle including design manufacturing operation maintenance fitness for service and long term operation Addresses new concepts of steam generators like helical coil and printed circuit steam generators *New Mexico Geology*, 2008 **Harvard Papers in Botany**, 1989 **SPE Production & Operations**, 2009 **Indian Journal of Chemistry**, 2009 **Cornell University Courses of Study** Cornell University, 2007 **The Pesticide Manual** Clive Tomlin, British Crop Protection Council, 2009 The fifteenth edition of The Pesticide Manual provides the most comprehensive information on active ingredients for the control of crop pests in the world Completely revised and updated with information supplied by manufacturing companies worldwide the latest edition contains 30 new entries including more than 20 new synthetic molecules It also features 1 436 profiles and lists over 2 600 products **Soft Nanotechnology**, 2009 This book will incorporate aspects of structuring soft materials at the nanoscale and the incorporation of such materials into actual devices Soft nanotechnology aims to build on our knowledge of biological systems by implementing self assembly and wet chemistry into electronic devices actuators fluidics etc Understanding predicting and utilising the rules of self assembly be it at solid liquid interfaces in solution or in block copolymers and interface the resulting complex structures in well defined 2D and 3D arrangements This timely book will appeal to scientists researchers and anyone working in this field **Irricab**, 1980-07

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