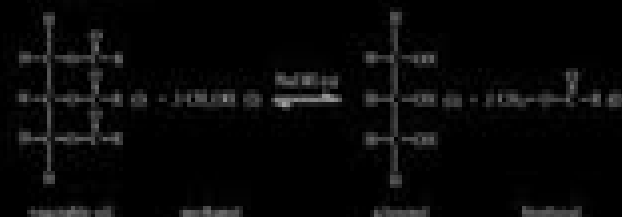


SECTION A

Answer all the questions in the space provided.

1. Butanol exhibits one of nature's ability to its atmosphere carbon by photosynthesis. Many compounds and individuals are now using butanol as a fuel in order to reduce their carbon footprint. Butanol can be synthesized from vegetable oil according to the following reaction.



- (a) Identify the organic functional group present in both vegetable oil and butanol. (2)

.....

- (b) For part of her extended essay investigation into the efficiency of the process, a student treated a pure sample of a vegetable oil (where R=C₁₇H₃₃) with methanol. The raw data recorded for the reaction is below.

Mass of oil	= 10.13 g
Mass of methanol	= 2000 g
Mass of sodium hydroxide	= 1.2 g
Mass of butanol produced	= 91.6 g

The relative molecular mass of the oil was 314. Calculate the percent (by volume) of the oil (and the methanol) used, and hence the percent (by volume) of pure methanol. (3)

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(This question continues on the following page)



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Question Continued

- (c) The reversible arrows in the equation indicate that the production of butanol is an equilibrium process.

- (i) State what is meant by the term *dynamic equilibrium*. (1)

.....

.....

- (ii) Using the abbreviations (vegetable oil), (methanol), (glycerol) and (butanol) deduce the equilibrium constant expression (K_c) for the reaction. (3)

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- (iii) Suggest a reason why sodium methoxide is used in this process. (1)

.....

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- (iv) State and explain the effect that the addition of the sodium hydroxide catalyst will have on the position of equilibrium. (2)

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- (d) The products had to be stored separately because they formed two distinct layers in the reaction vessel. Explain why they form two distinct layers and why mixing increases the rate of reaction. (2)

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(This question continues on the following page)



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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 opportunités 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*

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