



GRADE 12 PHYSICAL SCIENCES
NOVEMBER EXAMINATION PAPER 2: CHEMISTRY

QUESTION 1

1.1 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 (1.1.1-1.1.10) on your answer sheet, for example 1.1.11. D.

1.1.1 Catalyst required for a thermal cracking:

- A Strong acids
- B No catalyst required
- C Pt, Ni or Pd
- D FCC

1.1.2 The correct molecular structure for 3-methyl-2-pentanone:



1.1.3 Suffix for the homologous series of esters:

- A -ene
- B -oate
- C -oic acid
- D -al

1.1.4 The relationship between volume and pressure of a gas is:

- A Constant
- B Directly proportional
- C Inversely proportional
- D Independent

1.1.5 Organic homologous series with a double bond between oxygen and carbon:

- A Alkenes
- B Aldehydes
- C Alkynes
- D Alcohols

1.1.6 Which of the following will cause a DECREASE in reaction rate?

- A Presence of a catalyst
- B Increase in the concentration of the reactant
- C Decrease in the concentration of the reactant
- D Alteration of electrical conductivity of reactant particles

1.1.7 The product concentration of a chemical reaction is decreased. What would the result be referring to Le Chatelier's principles.

- A The reaction rate of the forward reaction would increase.
- B The reaction rate of the backward reaction would increase.
- C The activation energy would decrease.
- D The activation energy would increase.

1.1.8 Which of the following scenarios would NOT cause a change in the Maxwell Boltzmann distribution of a gas?

- A Temperature changes.
- B Concentration changes.
- C Adding a catalyst.
- D Pressure changes.

Memorandum Physical Science Paper Exemplar 23

Y Pai

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Memorandum Physical Science Paper Exemplar 23:

Leisure and Pleasure Caroline Daley, 2013-10-01 This exploration of an unexpected aspect of New Zealand social history examines the human body at leisure in the years 1900 growing ideas about fitness health and exercise the rise of beauty contests the culture of the beach and the pool nudism and children s play and the appearance of playgrounds The central aim is to explore how bodies men s women s and children s were shaped and displayed through various leisure pursuits in 20th century New Zealand

The Atomic West Bruce W. Hevly, John M. Findlay, 2011-12-01 The Manhattan Project the World War II race to produce an atomic bomb transformed the entire country in myriad ways but it did not affect each region equally Acting on an enduring perception of the American West as an empty place the U S government located a disproportionate number of nuclear facilities particularly the ones most likely to spread pollution in western states The Manhattan Project manufactured plutonium at Hanford Washington designed and assembled bombs at Los Alamos New Mexico and detonated the world s first atomic bomb at Alamogordo New Mexico on June 16 1945 In the years that followed the war the U S Atomic Energy Commission selected additional western sites for its work Many westerners initially welcomed the atom Like federal officials they too regarded their region as empty or underdeveloped Facilities to make test and base atomic weapons sites to store nuclear waste and even nuclear power plants were regarded as assets By the 1960s and 1970s however regional attitudes began to change At a variety of locales ranging from Eskimo Alaska to Mormon Utah westerners devoted themselves to resisting the atom and its effects on their environments and communities Just as the atomic age had dawned in the American West so its artificial sun began to set there *The Atomic West* brings together contributions from several disciplines to explore the impact on the West of the development of atomic power from wartime secrecy and initial postwar enthusiasm to public doubts and protest in the 1970s and 1980s An impressive example of the benefits of interdisciplinary studies on complex topics *The Atomic West* advances our understanding of both regional history and the history of science and does so with human communities as a significant focal point The book will be of special interest to students and experts on the American West environmental history and the history of science and technology

The Changing University Dorothy Shore Zinberg, 1991-05-31 This collection of papers was written for a NATO Advanced Research Workshop held at Harvard University in March 1990 The title *The Changing University and the Education of Scientists and Engineers* An International Workshop broad as it is does not convey the sweep of data information opinions and suggestions for future research and policy choices that were crowded into two and a half days of formal presentations mealtime discussions and teatime chats The proposal for the workshop grew out of a research project I had carried out that explored the policies governing the education of foreign science and engineering students S E s in several industrialized countries and of two countries that send large numbers of S E students abroad the People s Republic of China PRC and Japan see chapter 7 In research visits to these countries as well as to France the United Kingdom West Germany and within the

United States I was struck by the similarity of issues that were raised One was the concern that there would not be enough well trained scientists and engineers to meet the constantly increasing demand for them Government officials industrialists and educators repeatedly stressed that a well educated and motivated work force was essential for their economies national security and for society as a whole Many of those interviewed mentioned that universities are undergoing rapid systemic changes as governments and industry are calling on them to provide human resources and intellectual capital *Chemical News and Journal of Physical Science* ,1887 **Scientists in the Classroom** J. Rudolph,2002-05-02 During the 1950s leading American scientists embarked on an unprecedented project to remake high school science education Dissatisfaction with the soft school curriculum of the time advocated by the professional education establishment and concern over the growing technological sophistication of the Soviet Union led government officials to encourage a handful of elite research scientists fresh from their World War II successes to revitalize the nations science curricula In *Scientists in the Classroom* John L Rudolph argues that the Cold War environment long neglected in the history of education literature is crucial to understanding both the reasons for the public acceptance of scientific authority in the field of education and the nature of the curriculum materials that were eventually produced Drawing on a wealth of previously untapped resources from government and university archives Rudolph focuses on the National Science Foundation supported curriculum projects initiated in 1956 What the historical record reveals according to Rudolph is that these materials were designed not just to improve American science education but to advance the professional interest of the American scientific community in the postwar period as well

Linear Dynamical Systems on Hilbert Spaces: Typical Properties and Explicit Examples S. Grivaux,É. Matheron,Q. Menet,2021-06-21 We solve a number of questions pertaining to the dynamics of linear operators on Hilbert spaces sometimes by using Baire category arguments and sometimes by constructing explicit examples In particular we prove the following results i A typical hypercyclic operator is not topologically mixing has no eigen values and admits no non trivial invariant measure but is densely distributionally chaotic ii A typical upper triangular operator with coefficients of modulus 1 on the diagonal is ergodic in the Gaussian sense whereas a typical operator of the form diagonal with coefficients of modulus 1 on the diagonal plus backward unilateral weighted shift is ergodic but has only countably many unimodular eigenvalues in particular it is ergodic but not ergodic in the Gaussian sense iii There exist Hilbert space operators which are chaotic and U frequently hypercyclic but not frequently hypercyclic Hilbert space operators which are chaotic and frequently hypercyclic but not ergodic and Hilbert space operators which are chaotic and topologically mixing but not U frequently hypercyclic We complement our results by investigating the descriptive complexity of some natural classes of operators defined by dynamical properties **Reports from Commissioners** Great Britain. Parliament. House of Commons,1875 **Bulletin of the Atomic Scientists** ,1975-12 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic

Doomsday Clock stimulates solutions for a safer world **Report[s]**. Great Britain. Royal Commission on Scientific Instruction and the Advancement of Science,1873 **Handbook on the Politics of Antarctica** Klaus Dodds,Alan D. Hemmings,Peder Roberts,2017-01-27 The Antarctic and Southern Ocean are hotspots for contemporary endeavours to oversee the last frontier of the Earth The Handbook on the Politics of Antarctica offers a wide ranging and comprehensive overview of the governance geopolitics international law cultural studies and history of the region Four thematic sections take readers from the earliest human encounters to contemporary resource exploitation and climate change Written by leading experts the Handbook brings together the very best interdisciplinary social science and humanities scholarship on the Antarctic and Southern Ocean

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