



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 For Physical Science November 2008

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Debasis Bagchi



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We Could Not Fail Richard Paul, Steven Moss, 2015-05-01 This surprising and insightful history profiles ten African American engineers mathematicians and others who worked for NASA's space program Lauren Helmuth New York Times Book Review The Space Age began just as the struggle for civil rights forced Americans to confront the bitter legacy of slavery discrimination and violence against African Americans NASA itself became an agent of social change with President Kennedy opening its workplaces to African Americans In *We Could Not Fail* Richard Paul and Steven Moss profile ten pioneer African American space workers whose stories illustrate the role NASA and the space program played in promoting civil rights Paul and Moss recount how these technicians mathematicians engineers and an astronaut candidate surmounted barriers and navigated being the sole African American in a NASA work group These brave and determined men went on to help transform Southern society by integrating colleges patenting new inventions holding elective office and reviving and governing defunct towns Adding new names to the roster of civil rights heroes and a new chapter to the story of space exploration *We Could Not Fail* demonstrates how African Americans broke the color barrier by competing successfully at the highest level of American intellectual and technological achievement *Proposed Canadian National Railway Company Acquisition of the Elgin, Joliet & Eastern Railway Company*, 2008 Breaking Point Rebecca Schwartz Greene, 2023-01-03 WINNER SOCIETY FOR MILITARY HISTORY DISTINGUISHED BOOK AWARDS FIRST BOOK This book informs the public for the first time about the impact of American psychiatry on soldiers during World War II *Breaking Point* is the first in depth history of American psychiatry in World War II Drawn from unpublished primary documents oral histories and the author's personal interviews and correspondence over years with key psychiatric and military policymakers it begins with Franklin Roosevelt's endorsement of a universal Selective Service psychiatric examination followed by Army and Navy pre and post induction examinations Ultimately 2.5 million men and women were rejected or discharged from military service on neuropsychiatric grounds Never before or since has the United States engaged in such a program In designing Selective Service Medical Circular No. 1 psychiatrist Harry Stack Sullivan assumed psychiatrists could predict who might break down or falter in military service or even in civilian life thereafter While many American and European psychiatrists questioned this belief and huge numbers of American psychiatric casualties soon raised questions about screening's validity psychiatric and military leaders persisted in 1942 and 1943 in endorsing ever tougher screening and little else Soon families complained of fathers and teens being drafted instead of being identified as psychiatric 4Fs and Blacks and Native Americans among others complained of bias A frustrated General George S. Patton famously slapped two malingering neuropsychiatric patients in Sicily a sentiment shared by Marshall and Eisenhower though they favored a tamer style Yet psychiatric rejections, evacuations and discharges mounted While psychiatrist Roy Grinker and a few others treated soldiers close to the front in Tunisia in early 1943 this was the exception But as demand for manpower soared and psychiatrists finally went to the field

and saw that combat itself not predisposition precipitated breakdown leading military psychiatrists switched their emphasis from screening to prevention and treatment But this switch was too little too late and slowed by a year long series of Inspector General investigations even while numbers of psychiatric casualties soared Ironically despite and even partly because of psychiatrists wartime performance plus the emotional toll of war postwar America soon witnessed a dramatic growth in numbers popularity and influence of the profession culminating in the National Mental Health Act 1946 But veterans with PTSD not recognized until 1980 were largely neglected

Global Perspectives on Childhood Obesity Debasis Bagchi, 2010-10-12 Understanding the complex factors contributing to the growing childhood obesity epidemic is vital not only for the improved health of the world's future generations but for the healthcare system The impact of childhood obesity reaches beyond the individual family and into the public arenas of social systems and government policy and programs Global Perspectives on Childhood Obesity explores these with an approach that considers the current state of childhood obesity around the world as well as future projections the most highly cited factors contributing to childhood obesity what it means for the future both for children and society and suggestions for steps to address and potentially prevent childhood obesity This book will cover the multi faceted factors contributing to the rapidly growing childhood obesity epidemic The underlying causes and current status of rapidly growing obesity epidemic in children in the global scenario will be discussed The strategies for childhood obesity prevention and treatment such as physical activity and exercise personalized nutrition plans and school and community involvement will be presented

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Physical Science , **Glencoe Physical Science** Charles W. McLaughlin, 2012 **Physical Science** South Africa. Department of Education, 2010 **Everything Science** , *Modules for FET* , 2001

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