



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.

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