



NATIONAL
SENIOR CERTIFICATE

GRADE 11

NOVEMBER 2020

PHYSICAL SCIENCES P2
(CHEMISTRY)
EXEMPLAR

MARKS: 100
TIME: 1 hour



The question paper consists of 10 pages, including 4 extra sheets.
Use blue or black ink for writing. Do not use red ink.

QUESTION 3

PHYSICAL SCIENCES PAPER 2

INTERMOLECULAR FORCES

GRADE 11

NOVEMBER 2020

Examiner's use: _____ Physical Sciences P2

QUESTION 3 starts on a NEW page.

3.1 The boiling points in the table below were obtained during an investigation carried out to measure the boiling points of pure 1-hexanol. The table also lists the ΔH_{vap} and ΔH_{fus} for 1-hexanol in kJ mol⁻¹ and in $^{\circ}\text{C}$ respectively.

Compound	Molecular mass (M _r)	Boiling point (T _b)
A	102	162
B	102	21

- 3.1.1 Define the term boiling point. (2)
- 3.1.2 Is pure 1-hexanol composed of one (1) or two (2) and 100 (one) or 200 (two) percent? (2)
- 3.1.3 Name the type of intermolecular force that exists between molecules of pure compounds A and B and its boiling point of these molecules. (2)
- 3.1.4 What (100) of the compound (A or B) has a (1-hexanol) greater bond dipole moment? (2)
- 3.1.5 Which compound (A or B) will have the higher vapour pressure? (2)
- 3.1.6 Which compound (A or B) will have the higher surface tension? (2)

Compound B (H₂O) is shown in the table. Use a suitable intermolecular force that both compounds A and B have to identify liquid boiling point of (162 $^{\circ}\text{C}$).

- 3.1.6 Explain why the boiling point of compound B is (100 $^{\circ}\text{C}$) higher than that of compound A and B by referring to the T_b and intermolecular or intramolecular forces involved. (2)

3.2 Substances C1 is added to water whereas 2 propanone (acetone) and water is separated into two in the diagram below.



- 3.2.1 Is water (H₂O) or H₂O, of the water (water)? (2)
- 3.2.2 Explain the process in QUESTION 3.2.1 about the mixing in the intermolecular forces involved. (2)

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Physical Science Paper 2 Intermolecular Forces Investigation

LL Leslie

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape with a gradient, partially overlapping the bar's end.

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