



higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE

CHEMISTRY N5

(15040015)

11 July 2022 (X-paper)
09:00–12:00

Drawing instruments may be used.

This question paper consists of 7 pages and 1 periodic table.

239Q1A2211

DEPARTMENT OF HIGHER EDUCATION AND TRAINING
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CHEMISTRY N5
TIME: 3 HOURS
MARKS: 100

INSTRUCTIONS AND INFORMATION

1. Answer all the questions.
 2. Read all the questions carefully.
 3. Number the answers according to the numbering system used in this question paper.
 4. Write neatly and legibly.
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QUESTION 1

1.1 Indicate whether the following statements are TRUE or FALSE by writing only 'True' or 'False' next to the question number (1.1.1–1.1.5) in the ANSWER BOOK. Give a reason for the answer.

1.1.1 Hydrocarbons are compounds that contain hydrogen, carbon and halogen atoms.

1.1.2 Aromatic compounds are cyclic compounds which do not contain a benzene ring.

1.1.3 Hexane is classified as a saturated compound.

1.1.4 $\text{CH}_3(\text{CH}_2)_4\text{CH}_3$ is the condensed formula of hexane.

1.1.5 A carbonium is a carbon carrying a negative charge.

(5 × 2) (10)

1.2 Give ONE term for each of the following descriptions by writing it next to the question number (1.2.1–1.2.5) in the ANSWER BOOK.

1.2.1 Ability of a carbon atom to bond to itself to form chains and rings

1.2.2 Compounds with the same molecular formula, but different structural formula

1.2.3 Bonds that result from the sharing of electrons between two nuclei

1.2.4 A positively charged ion with fewer electrons than its neutral form

1.2.5 Group of compounds having the same functional group and differing only in the length of the carbon chain in the residue

(5 × 1) (5)
[15]