

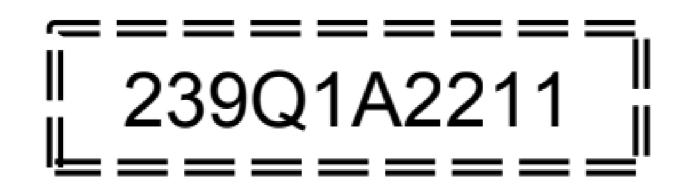
## NATIONAL CERTIFICATE CHEMISTRY N5

(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.



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(15040015) -2-

## DEPARTMENT OF HIGHER EDUCATION AND TRAINING REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE
CHEMISTRY N5
TIME: 3 HOURS
MARKS: 100

## **INSTRUCTIONS AND INFORMATION**

- Answer all the questions.
- 2. Read all the questions carefully.
- Number the answers according to the numbering system used in this question paper.

4. Write neatly and legibly.

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(15040015) -3-

## **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 CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub> is the condensed formula of hexane.
- 1.1.5 A carbonium is a carbon carrying a negative charge.

(5 × 2) (10)

- 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

 $(5 \times 1) \qquad (5)$ 

[15]

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