



PREPARATORY EXAMINATION VOORBEREIDENDE EKSAMEN

2024

MARKING GUIDELINES NASIENRIGLYNE

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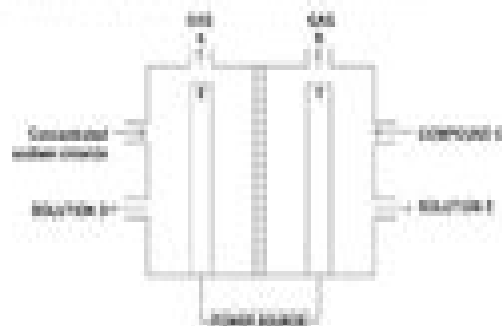
PHYSICAL SCIENCES: CHEMISTRY
FISIESE WETenskappe: CHEMIE

(PAPER/VRAESTEL 2)

15 pages/15 vaaie

QUESTION 9 (Start on a new page.)

Electrolysis is generally used in industry to produce chemicals through the decomposition of compounds. The simplified diagram below represents an electrolytic cell used in the electrolysis of a concentrated sodium chloride solution.



- 9.1 Define the term *anode* in terms of oxidation or reduction. (1)

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PAPER 2

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- 9.2 Which electrode, X or Y, is connected to the positive terminal of the power source? Give a reason for the answer. (2)
- 9.3 Write down the NAME or CHEMICAL FORMULA of
- 9.3.1 Gas A. (1)
- 9.3.2 Compound C. (1)
- 9.4 Write down the equation for the half-reaction that takes place at the cathode of the cell. (2)
- 9.5 Refer to the relative strength of the oxidising agents to explain the answer to

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Judd E. Hollander

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