



NATIONAL
SENIOR CERTIFICATE

GRADE 11

NOVEMBER 2020

PHYSICAL SCIENCES P2
(CHEMISTRY)
EXEMPLAR

Duration: 120
Time: 1 hour



The question paper consists of 12 pages, including 4 extra sheets.
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QUESTION 8

PHYSICAL SCIENCES PAPER 2

ACID AND BASES

GRADE 11

NOVEMBER 2020

QUESTION 8: ACID AND BASES (20)

8.1. Give a chemical equation (arrow) that goes for the reaction to represent B.

The following reaction is shown on the page:

a. Name of the reaction (20)
b. Chemical equation (10)

QUESTION 8 (Start on a NEW page)

8.2. Sodium carbonate is an ionic compound with the following percentage composition:

Na 27,0% C 14,3% O 58,7%

The molar mass of the compound is 106 g mol⁻¹.

8.2.1. Calculate the mass percentage of sodium (20)
8.2.2. Calculate the percentage of oxygen in the compound (20)
8.2.3. Calculate the molar mass of sodium (20)

8.3. Concentrated sulphuric acid is a mixture of sulphuric acid and water. It is a mixture of sulphuric acid and water. It is a mixture of sulphuric acid and water.

8.3.1. Calculate the concentration of the sulphuric acid (20)
8.3.2. Calculate the concentration of the sulphuric acid (20)

8.4. Sodium carbonate reacts with an acid to form a salt. The salt is sodium carbonate.

2Na₂CO₃ + 4HCl → 2NaCl + 2H₂O

Calculate the volume of hydrogen gas (H₂) that would be produced at STP if 10 g of sodium carbonate reacts completely. (20)



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Raffaela Di Napoli



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