



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

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QUESTION 8: ACID AND BASES (100 marks)

8.1. Draw a potential energy diagram for the reaction represented by

The following equation shown on the page:

a. Heat of the reaction (20)
b. Activation energy (20)

QUESTION 8 (Start on a NEW page)

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

Na 40%, O 52%, H 6%

The molar mass of the compound is 40 g mol⁻¹.

8.2.1. Calculate the mass percentage of Na (20)
8.2.2. Calculate the number of moles of NaOH in 40 g (20)
8.2.3. Calculate the volume of NaOH in 40 g (20)

8.3. Concentrated sulphuric acid is a mixture of sulphuric acid and water. It is a mixture of 98% sulphuric acid and 2% water. Calculate the mass percentage of sulphuric acid in the mixture.

8.3.1. Calculate the mass percentage of sulphuric acid (20)

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

8.4. Sodium hydroxide is used in the production of soap. The following reaction is used in the production of soap:

$\text{C}_{18}\text{H}_{37}\text{O}_2 + \text{NaOH} \rightarrow \text{C}_{18}\text{H}_{35}\text{O}_2 + \text{H}_2\text{O}$

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

Physical Sciences Paper 2 November 20memorandum

Ian Douglas



Physical Sciences Paper 2 November 20memorandum:

The Unpredictable Certainty National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Commission on Physical Sciences, Mathematics, and Applications, NII 2000 Steering Committee, 1998-03-05 This book contains a key component of the NII 2000 project of the Computer Science and Telecommunications Board a set of white papers that contributed to and complements the project's final report *The Unpredictable Certainty Information Infrastructure Through 2000* which was published in the spring of 1996 That report was disseminated widely and was well received by its sponsors and a variety of audiences in government industry and academia Constraints on staff time and availability delayed the publication of these white papers which offer details on a number of issues and positions relating to the deployment of information infrastructure

Cities Ian Douglas, 2013-05-30 Cities are amongst our greatest creations Yet at the start of the twenty first century there is increasing concern over their unchecked expansion and the detrimental effect this is having on the planet as induced climate change and ever increasing demands upon the world's resources take effect How can we make the world's cities more sustainable Ian Douglas tells the story of cities why they exist how they have evolved the problems they have encountered and those they will face as our century progresses Global in geographical coverage and ranging from the cities of the classical world to the megacities of today it is the first comprehensive environmental history of cities

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