



## GRADE 10 PHYSICAL SCIENCES

### NOVEMBER EXAMINATION PAPER 2: CHEMISTRY

#### SECTION A

##### QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION/NUMBER in your answer book.

1.1 Which of the following is an example of a mixture?

- A distilled water
- B diamond
- C sodium chloride
- D syngas

1.2 Element with the electron configuration  $1s^2, 2s^2, 2p^4$

- A oxygen
- B carbon
- C helium
- D nitrogen

1.3 The chemical formula of sodium sulfide

- A NaS
- B  $Na_2S$
- C  $NaS_2$
- D  $Na_2S_2$

1.4 Strongest intermolecular force found in water?

- A ion-dipole
- B Dipole-dipole
- C Van der Waals
- D Hydrogen bond

1.5 The particles of a gas ...

- A are tightly packed
- B vibrate against each other
- C move freely and rarely touch
- D move over one another

1.6 Element with the highest electronegativity?

- A Hydrogen
- B Helium
- C Oxygen
- D Fluorine

1.7 When an atom of Group 16 ionises to become an ion, the

- A mass number of the atom will increase
- B atomic number of the atom will decrease
- C number of electrons will decrease
- D number of electrons will increase

1.8 An element with the following Aufbau diagram will be classified as a

|             |    |
|-------------|----|
| $1s^2$      | 2s |
| $2s^2 2p^4$ | 2p |
| $3s^2$      | 3s |
| $3p^4$      | 3p |

- A noble gas
- B halogen
- C alkali earth metal
- D alkali metal

# Physical Science November Paper 2 Exemplar Grade 1

**M Carnoy**



**Physical Science November Paper 2 Exemplar Grade 1:**

Physical Science November Paper 2 Exemplar Grade 1: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Let's delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year.

**The Must-Read :** Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail.

**Physical Science November Paper 2 Exemplar Grade 1 :** Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

**Discover the Magic :** Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered.

The novel begins with Richard Pappen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

**The Secret History** is a brilliant and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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web with a strong acid and strong base titration strong acids and strong bases refer to species that completely dissociate to form ions in solution by contrast weak acids and bases ionize only partially and the ionization reaction is reversible

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web lab report on acid base titration 1346 words 6 pages titration process is used in an acid base experiment in order to determine the concentrations of solutions of acids and bases through the titration process we are able to identify physical changes to the mixture such as the colour change to indicate the end point of the experiment

*acid base titrations chemistry libretexts* - Dec 08 2022

web aug 30 2022 acid base titrations are usually used to find the amount of a known acidic or basic substance through acid base reactions the analyte titrand is the solution with an unknown molarity the reagent titrant is the solution with a known molarity that will react with the analyte

**acid base titrations conclusion docx conclusion the** - Jul 03 2022

web conclusion the purpose of the experiment was to identify the unknown solid acid 17 by calculating its molar mass this was done by titration of the acid with sodium hydroxide in order to find the volume of sodium hydroxide required to reach the end point and that value was used in unit analysis to find the molar mass and identify the unknown solid acid

**conclusion acid base titration lab** - Sep 05 2022

web by utilizing the half equivalence point on the titration curve the pka of the acid analyte was determined to be 3.655 furthermore using the stoichiometric ratio between the naoh and the acid analyte 1:1 we could experimentally determine the number of moles of the acid in the solution to be 0.00731 moles making the experimental molar mass

acid base titration chemistry 1210 lab report containing an - Jul 15 2023

web chem 1210 spring 2019 experiment 10.11 part 1 acid base titration abstract the purpose of this experiment is to observe the titration of hydrochloric acid a strong acid with sodium hydroxide a strong base and acetic acid a

*7.2 lab titrations chemistry libretexts* - Jun 14 2023

web goals understand that parts of an acid base titration be able to determine the  $K_a$  or  $K_b$  from pH data associated with the titration of a weak acid or base be able to determine the molar mass of a solid monoprotic acid from titration data be able to calculate  $K_{a1}$  and  $K_{a2}$  for a polyprotic acid by the end of this lab students should be able to

*21.17 titration experiment chemistry libretexts* - Oct 06 2022

web titration experiment in the neutralization of hydrochloric acid by sodium hydroxide the mole ratio of acid to base is 1:1  
 $\text{HCl(aq)} + \text{NaOH(aq)} \rightarrow \text{NaCl(aq)} + \text{H}_2\text{O(l)}$   
one mole of HCl would be fully neutralized by one mole of NaOH

*acid base titration conclusion pdf course hero* - Aug 16 2023

web conclusion the identification of an unknown solid acid the purpose of this experiment was to determine the standardization of sodium hydroxide naoh and oxalic acid  $\text{H}_2\text{C}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$  and the molar mass of an unknown solid acid using the molar mass of the standardized sodium hydroxide solution

experiment 3 acid base titration chem 1202 expt 3 title - Aug 04 2022

web acid base reactions can be used to determine concentrations of an acid or a base using stoichiometric calculations and titrimetric analysis the volume of a solution required to react

lab 6 acid base titration chemistry libretexts - Feb 10 2023

web jul 19 2023 introduction titration is an analytical quantitative technique used to determine the concentration of a solute a ph titration is used to determine the concentration of an acid or a base titrations play an important role in determining amount and purity in many manufacturing processes

**acid base titration lab report pdf scribd** - May 01 2022

web specifically an acid base titration can be used to figure out the concentration of an acid or base whether an unknown acid or base is strong or weak  $\text{pK}_a$  of an unknown acid or  $\text{pK}_b$  of the unknown base key terms titration a process where a solution of known strength is added to a certain volume of a treated sample containing an

*lab report titration chm1046l volumetric analysis acid base* - Apr 12 2023

web conclusion this lab evaluated an acid base reaction with the volumetric analysis of a standard solution being naoh reaction with a 2nd substance  $\text{H}_2\text{C}_2\text{O}_4 \cdot 2\text{NaOH} \cdot \text{Na}_2\text{C}_2\text{O}_4 \cdot 4\text{H}_2\text{O}$  to differentiate an acid from a base in a solution a ph scale is used the ph scale ranges from 0 to 14 a ph of 7 is neutral in an acid base reaction

**conclusion titration lab** - Jan 29 2022

web conclusion titration lab titration lab

*7 3 titrations lab report chemistry libretexts* - Jan 09 2023

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**data calculations and conclusion acid base titration lab** - Jun 02 2022

web conclusion in this lab we used titration to explore the concepts of stoichiometry and equivalence points we found the concentration of an unknown substance by mixing 2m hcl with the naoh of unknown concentration in order to experimentally ascertain the concentration of the naoh

**this is a chemistry lab report on an acid base titration experiment** - Dec 28 2021

web this point of titration is referred to as the equivalence point considering the 1:1 stoichiometry of this acid base reaction  
 $\text{NaOH (aq)} + \text{C}_6\text{H}_4\text{COOH (aq)} \rightarrow \text{C}_6\text{H}_4\text{COONa (aq)} + \text{H}_2\text{O (l)}$  the point of equivalence is the point of titration when the number of moles of NaOH added is equal to the number of moles of KHP in the