

**AP® CHEMISTRY
2008 SCORING GUIDELINES**

Question 2

Answer the following questions relating to gravimetric analysis.

In the first of two experiments, a student is assigned the task of determining the number of moles of water in one mole of $\text{MgCl}_2 \cdot x\text{H}_2\text{O}$. The student collects the data shown in the following table.

Mass of empty container	22.347 g
Initial mass of sample and container	25.825 g
Mass of sample and container after first heating	23.983 g
Mass of sample and container after second heating	23.978 g
Mass of sample and container after third heating	23.977 g

- (a) Explain why the student can correctly conclude that the hydrate was heated a sufficient number of times in the experiment.

No additional mass was lost during the third heating, indicating that all the water of hydration had been driven off.

One point is earned for the correct explanation.

- (b) Use the data above to

- (i) calculate the total number of moles of water lost when the sample was heated, and

$$\text{mass of H}_2\text{O lost} = 25.825 - 23.977 = 1.848 \text{ g}$$

OR

$$25.825 - 23.906 = 1.849 \text{ g}$$

$$1.848 \text{ g H}_2\text{O} \times \frac{1 \text{ mol H}_2\text{O}}{18.02 \text{ g H}_2\text{O}} = 0.1026 \text{ mol H}_2\text{O}$$

One point is earned for calculating the correct number of moles of water.

- (ii) determine the formula of the hydrated compound.

$$\text{mass of anhydrous MgCl}_2 = 23.977 - 22.347 = 1.630 \text{ g}$$

$$1.630 \text{ g MgCl}_2 \times \frac{1 \text{ mol MgCl}_2}{95.20 \text{ g MgCl}_2} = 0.01712 \text{ mol MgCl}_2$$

$$\frac{0.1026 \text{ mol H}_2\text{O}}{0.01712 \text{ mol MgCl}_2} = 5.993 = 6 \text{ mol H}_2\text{O per mol MgCl}_2$$

$\Rightarrow$ Formula is $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$

One point is earned for calculating the correct number of moles of anhydrous MgCl_2 .

One point is earned for writing the correct formula (with supporting calculations).

Gravimetric Analysis Questions With Answers

Chandresh Agrawal, nandini books



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Khanna's Multichoice Questions & Answers in Metallurgical Engineering O.P. Gupta, This book is meant for diploma degree student of metallurgical engineering for their academic programs as well as for various competitive examination for securing jobs This book has been structured in three section First section contains multiple choice type questions of various subjects of metallurgical engineering Second section contains chapter wise question of GATE Graduate Aptitude Test in Engineering from 1991 to 2016 Third section contains SHORT QUESTIONS ANSWERS in METALLURGICAL ENGINEERING Fourth section contains APPENDICES containing Glossary of terms related to Metallurgical Engineering and Q A of GATE 2017 This book has been designed to serve as Hand Book of Metallurgical Engineering which will be useful for various competitive examinations for recruitment in various public sector Private Sector companies as well as for GATE Examination Question have been arranged subject wise and answers are given at the bottom of the page **Chemical Calculations with Explanatory Notes, Problems, and Answers, Specially Adapted for Use in Colleges and Science Schools** Richard Lloyd Whiteley,1896 *Pharmaceutical Analysis-I* Dr. (Prof.) Vitthal Vishram Chopade,Prof. (Dr.) P.M. Patel,2022-01-13 Purchase the E Book version of Pharmaceutical Analysis I designed for B Pharm 1st Semester meticulously crafted and published by Thakur Publication in alignment with the PCI syllabus Delve into the intricacies of pharmaceutical analysis conveniently with this digital resource offering comprehensive coverage of essential topics *Analytical Chemistry Modified* Mr. Rohit Manglik,2024-03-01 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **BIS Exam PDF-Technical Assistant (Lab) Chemical eBook PDF** Chandresh Agrawal,nandini books,2024-06-12 SGN The eBook BIS Technical Assistant Lab Chemical Covers Chemistry Subject Objective Questions From Various Exams With Answers **Practical Chemistry (For B.Sc. I, II and III Year Students)** Pandey O.P. & Bajpai D.N. & Giri S.,1972 FOR B Sc I II III YEAR STUDENTS **A TEXT BOOK OF PHARMACEUTICAL CHEMISTRY** MR. JAGJOT GAUTAM, MR. SUBHENDU DEY, DR. SAUMENDU DEBROY, MR. SUKANTA DEBNATH, MR. NIHARJYOTI SAHARIA,2024-11-16 This is a comprehensive textbook designed for students and professionals in the field of pharmaceutical sciences It delves into the principles of chemistry as they apply to drug discovery development and manufacturing Covering a wide range of topics from organic and inorganic chemistry to medicinal chemistry and pharmacokinetics the book provides a detailed exploration of the chemical processes involved in designing and synthesizing pharmaceutical compounds It also addresses the analytical techniques used to evaluate drug efficacy and safety making it an essential resource for understanding the chemical foundation of pharmacology and therapeutic drug development **Pharmaceutical Chemistry (English Edition)** Dr. Desh Deepak Pandey,Dr.Arpit Katiyar,Neeraj Kumar,2024-04-01 Thakur publication Pvt Ltd

Presenting Pharmaceutical Chemistry in English Edition book for d pharm 1st year as per PCI The Pharmaceutical Chemistry book by Thakur Publication Pvt Ltd is a comprehensive guide for first year students pursuing Diploma in Pharmacy D Pharm as per the guidelines laid down by the Pharmacy Council of India PCI The book covers a wide range of topics related to the chemical and physical properties of drugs drug interactions and the synthesis and analysis of pharmaceutical compounds It also includes detailed information on the principles of medicinal chemistry drug design and drug metabolism With clear and concise explanations and numerous illustrations this book is an essential resource for students to gain a thorough understanding of pharmaceutical chemistry and its applications in the pharmaceutical industry This dual color book evokes a sense of satisfaction and fosters a profound grasp of its content among students *ANALYTICAL CHEMISTRY, SECOND EDITION* Dash, Dhruba Charan, 2017-08-01 The book now in its second edition provides a clear and concise understanding of the principles applications and limitations of the various techniques involved in analytical chemistry It motivates and prepares the students to face academic and research challenges in the field of analytical chemistry in performing analytical analysis and interpreting the results obtained The second edition while retaining the flow of chapters qualitative analysis quantitative analysis data analysis analysis of organic compounds separation and purification techniques electroanalytical techniques and spectroanalytical techniques introduces a new chapter on Thermoanalytical Techniques that discusses thermogravimetric analysis derivative thermogravimetric analysis and differential thermal analysis in detail Intended primarily as a text for the undergraduate and postgraduate students B Sc and M Sc of chemistry the book would also be of great benefit to the students who are appearing for NET and GATE examinations **KEY FEATURES** Provides clear introduction to all key analytical methods Uses a large number of illustrations to make each topic self explanatory Includes a large number of worked out problems for easy understanding of the concepts Contains numerous objective type questions short answer type questions and graded problems to test the readers understanding of the theory **DRDO-CEPTAM** **PDF-Senior Technical Assistant-B (STA-B) Tier II Exam eBook PDF** Chandresh Agrawal, nandini books, 2025-02-28 SGN The eBook DRDO CEPTAM Senior Technical Assistant B STA B Tier II Exam Covers Chemistry Subject Objective Questions With Answers

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web when you combine the led driver circuit without the charge indicating led and the dark detecting circuit the ultra bright led will come on when the solar cell is not charging the circuit now when light is on the solar cell it powers the base of q1 closing q1 and reducing the voltage to the base of q2 to near zero volts opening q2 and turning

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