

## Bachelor of Engineering Examination, 2023

(1<sup>st</sup> Year, 1<sup>st</sup> Semester)

## CHEMISTRY

Time: 3 hours

Full Marks: 100

Use separate answer sheet for Chemistry-I, Chemistry-II and Chemistry-III

## CO-1

## CHEMISTRY-I

Answer any three questions from CO-1

Q1. (a) Derive the expression for the calculation of the radius of Bohr's orbit and the velocity of the electron in hydrogen atom. 2+2

(b) What would be the wavelength of the 2<sup>nd</sup> line in the Lyman series for the H atom [Given  $R_H = 109678 \text{ cm}^{-1}$ ]. 2

(c) Calculate the de Broglie wavelength of a bullet having mass =  $2 \times 10^{-3} \text{ kg}$ , moving with the speed of  $300 \text{ ms}^{-1}$ . 2

(d) State and explain "Heisenberg uncertainty principle". 2

Q2. (a) What are the merits and demerits of Bohr's atomic model? 3

(b) Calculate the ionization energy of  $\text{Li}^{2+}$  ion. 1.5

(c) Define lattice energy. Construct Born-Haber cycle of NaCl. 1 + 2.5

(d) Applying Fajan's rule explain the trend on thermal stabilities of the following compounds

.  $\text{BeCO}_3$ ,  $\text{MgCO}_3$ ,  $\text{CaCO}_3$ ,  $\text{SrCO}_3$ ,  $\text{BaCO}_3$ . 2

Q3. (a) Define buffer solutions with examples. 2

(b) Discuss the mechanism of buffer action. 3

(c) Determine the pH of a solution obtained by mixing equal volumes of 0.1 M  $\text{NH}_4\text{Cl}$  and 0.02 M  $\text{NH}_4\text{OH}$ . [Given that  $K_b$  for  $\text{NH}_4\text{OH}$  is  $1.8 \times 10^{-5}$ ] 5

Q3. (a) Explain the trend of H-X-H angles (X = central atom) in  $\text{CH}_4$ ,  $\text{NH}_3$  and  $\text{H}_2\text{O}$ .

3

[ Turn over

# Answer To 1st Semester Chemistry Exam Review

**Lauren Gardner**



## **Answer To 1st Semester Chemistry Exam Review:**

**Phlebotomy Exam Review** Ruth E. McCall, 2023-08-15 Phlebotomy Exam Review Eighth Edition provides a comprehensive review of current phlebotomy theory and offers an ideal way to study for phlebotomy licensing or national certification exams. It also makes for an excellent study tool for students taking formal phlebotomy training programs. By answering the questions in this review, students can test their knowledge and application of current phlebotomy theory. Theory questions address recent federal safety standards, Clinical and Laboratory Standards Institute (CLSI) guidelines, and the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) phlebotomist competencies when applicable. Questions are standard multiple choice like those used on national exams with choices that often test your critical thinking abilities. **Army Chemical Review**, 2007 [Complete Phlebotomy Exam Review - E-Book](#) Pamela Primrose, 2015-02-25 Prepare for phlebotomy certification and licensure exam success with Complete Phlebotomy Exam Review 2nd Edition. This comprehensive review book has 1 500 questions. A new pretest provides an assessment of strengths and weaknesses, and a mock certification exam at the end of the book tests your knowledge of necessary information. Organized into chapters that correlate with the trusted textbook by Warekois and Robinson, each chapter includes a content review followed by multiple choice questions, each with an answer, a rationale, and a page number reference to information in the companion textbook. An Evolve website offers even more opportunity to practice with all the questions in the book plus 500 extra and the ability to sort by category or test in study or exam modes. 100 question mock certification exam at the end of the book allows you to test your comprehension of the material and identify areas of strength and weakness to target study. Answers, rationales, and page number references to the trusted companion text by Warekois and Robinson help you understand why your selected answer was right or wrong and strengthen your knowledge of key exam content areas. The Evolve site provides you with myriad opportunities for practice. With all the text questions plus an additional 500, you can take tests in exam or study mode and sort questions by category or chapter to tailor practice to your individual needs. Organized by chapters, each begins with a content review to break the subject of phlebotomy into manageable areas. Multiple choice questions with answers and rationales in each chapter test your comprehension of the material. NEW 1 500 questions provide you with even more opportunities for testing yourself and reinforcing the content. NEW 100 question pretest at the beginning of the book lets you assess where you stand from the start so you can target your study accordingly. NEW Photos and line drawings throughout the book illustrate what is being discussed and help you learn more about the equipment you will encounter on the job.

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