

Begin your response to **QUESTION 1** on this page.**CHEMISTRY****SECTION II****Time—1 hour and 45 minutes****7 Questions**

Directions: Questions 1–3 are long free-response questions that require about 23 minutes each to answer and are worth 10 points each. Questions 4–7 are short free-response questions that require about 9 minutes each to answer and are worth 4 points each.

For each question, show your work for each part in the space provided after that part. Examples and equations may be included in your responses where appropriate. For calculations, clearly show the method used and the steps involved in arriving at your answers. You must show your work to receive credit for your answer. Pay attention to significant figures.

1. Answer the following questions related to manganese compounds.

(a) Manganese has several common oxidation states.

(i) Write the complete electron configuration for an Mn atom in the ground state.



(ii) When manganese forms cations, electrons are lost from which subshell first? Identify both the number and letter associated with the subshell.

4/s

A student performs an experiment to produce a manganese salt of unknown composition, $\text{Mn}_x\text{Cl}_y(\text{aq})$, and determine its empirical formula. The student places a sample of $\text{Mn}(s)$ in a beaker containing excess $\text{HCl}(\text{aq})$, as represented by the following equation.

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ACTH Action in the Adrenal Cortex: From Molecular Biology to Pathophysiology Nicole Gallo-Payet, Antoine Martinez, André Lacroix, 2017-07-27 By stimulating adrenal gland and corticosteroid synthesis the adrenocorticotrophic hormone ACTH plays a central role in response to stress In this Research Topic a particular attention has been given to the recent developments on adrenocortical zonation the growth promoting activities of ACTH the various steps involved in acute and chronic regulation of steroid secretion by ACTH including the effect of ACTH on circadian rhythms of glucocorticoid secretion The Research Topic also reviews progress and challenges surrounding the properties of ACTH binding to the MC2 receptor MC2R including the importance of melanocortin 2 receptor accessory protein MRAP in MC2R expression and function the various intracellular signaling cascades which involve not only protein kinase A the key mediator of ACTH action but also phosphatases phosphodiesterases ion channels and the cytoskeleton The importance of the proteins involved in the cell detoxification is also considered in particular the effect that ACTH has on protection against reactive oxygen species generated during steroidogenesis The impact of the cellular microenvironment including local production of ACTH is discussed both as an important factor in the maintenance of homeostasis but also in pathological situations such as

severe inflammation Finally the Research Topic reviews the role that the pituitary adrenal axis may have in the development of metabolic disorders In addition to mutations or alterations of expression of genes encoding components of the steroidogenesis and signaling pathways chronic stress and sleep disturbance are both associated with hyperactivity of the adrenal gland A resulting effect is increased glucocorticoid secretion inducing food intake and weight gain which in turn leads to insulin and leptin resistance These aspects are described in detail in this Research Topic by key investigators in the field Many of the aspects addressed in this Research Topic still represent a stimulus for future studies their outcome aimed at providing evidence of the central position occupied by the adrenal cortex in many metabolic functions when its homeostasis is disrupted An in depth investigation of the mechanisms underlying these pathways will be invaluable in developing new therapeutic tools and strategies

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Table of Contents 13 Ap Chem Frq Answers

1. Understanding the eBook 13 Ap Chem Frq Answers
 - The Rise of Digital Reading 13 Ap Chem Frq Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 13 Ap Chem Frq Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 13 Ap Chem Frq Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 13 Ap Chem Frq Answers
 - Personalized Recommendations
 - 13 Ap Chem Frq Answers User Reviews and Ratings
 - 13 Ap Chem Frq Answers and Bestseller Lists
5. Accessing 13 Ap Chem Frq Answers Free and Paid eBooks
 - 13 Ap Chem Frq Answers Public Domain eBooks
 - 13 Ap Chem Frq Answers eBook Subscription Services
 - 13 Ap Chem Frq Answers Budget-Friendly Options

6. Navigating 13 Ap Chem Frq Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - 13 Ap Chem Frq Answers Compatibility with Devices
 - 13 Ap Chem Frq Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 13 Ap Chem Frq Answers
 - Highlighting and Note-Taking 13 Ap Chem Frq Answers
 - Interactive Elements 13 Ap Chem Frq Answers
8. Staying Engaged with 13 Ap Chem Frq Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 13 Ap Chem Frq Answers
9. Balancing eBooks and Physical Books 13 Ap Chem Frq Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 13 Ap Chem Frq Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 13 Ap Chem Frq Answers
 - Setting Reading Goals 13 Ap Chem Frq Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 13 Ap Chem Frq Answers
 - Fact-Checking eBook Content of 13 Ap Chem Frq Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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