

BIO-INORGANIC CHEMISTRY

Metal ions present in biological systems, Classification of elements according to their action in biological system, Geochemical effect on the distribution of metals

1. Which alkali metal ions are the major components of extracellular and intracellular fluids?
2. Give examples of metal containing biomolecules which perform the following functions:
 - (a) Oxygen storage
 - (b) Metal storage
 - (c) Electron carrier
 - (d) Photoredox
3. Name an important biomolecule containing cobalt.
4. Give the classification of elements according to their action in biological system and give an example of each type
5. What do you understand by essential and non-essential metal ions in the biosystem? Give an example of each type.
6. Draw the dose-response curve for an essential element and a toxic element.
7. Elements such as Si, Al, Ti, etc. are quite prominent components in the earth's crust but have only marginal role in the biosystem, why?

Sodium / K-pump

8. What is the difference between active and passive transport? Why is the sodium – potassium pump considered to be a case of active transport?
9. Discuss the working of the sodium-potassium pump. How is it important for a cell?
10. What are the different types of ionophores and why are they needed for transport of ions?
11. With the help of a diagram discuss the various steps involved in the mechanism of the sodium-potassium pump.
12. What would have happened if the ATP ase involved in the sodium – potassium pump did not undergo eversion?
13. Which alkaline earth metal is also involved in the sodium – potassium pump? What is the source of energy for this pump?
14. How is the unequal concentration of Na^+ and K^+ ions in extra cellular and intracellular fluid controlled in the human body? Give a diagrammatic representation of the process and explain the mechanism involved in it.
15. What is an ion pump? Show how the sodium potassium pump maintains the concentration gradient of the relevant ions as well as the charge gradient across the cell membrane.
16. Why does a minute concentration of vanadate inhibit the operation of the ATP ase in the sodium - potassium pump?
17. What is the major difference in the nature of the channels selective for sodium and potassium and what are the evidences for this?

Questions Answers On Bioinorganic Chemistry D Ray

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Regents**



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Bioinorganic Chemistry Rosette M. Roat-Malone, 2003-03-20 Bioinorganic chemical knowledge grows more interesting and more complex with each passing year. As more details about the usage and utility of metals in biological species and more mechanistic and structural information about bioinorganic molecules become available, scientists and students continue to turn their attention to this blossoming discipline. Rosette Roat Malone's *Bioinorganic Chemistry: A Short Course* provides an accessible survey of bioinorganic chemistry for advanced undergraduate and graduate students. Comprehensive coverage of several topics offers insight into the increasingly diverse bioinorganic area. Roat Malone's text concentrates on bioinorganic chemistry's two major focuses: naturally occurring inorganic elements and their behavior in biological systems and the introduction of inorganic elements into biological systems often as medicines. The book begins with two review chapters: *Inorganic Chemistry Essentials* and *Biochemistry Fundamentals*. Chapter 3, *Instrumental and Computer Based Methods*, provides an introduction to some important instrumental techniques, including basic information about computer hardware and software. Chapters on specific topics include *Iron-Containing Oxygen Carriers and Their Synthetic Models*, *Copper Enzymes*, *The Enzyme Nitrogenase*, *Metals in Medicine*. The author also encourages instructors and students to pursue their own independent investigations in bioinorganic topics, providing a helpful detailed list of suggestions. With a host of current bibliographic references, *Bioinorganic Chemistry: A Short Course* proves the premier text in its field. [Applications of Physical Methods to Inorganic and Bioinorganic Chemistry](#) Robert A. Scott, Charles M. Lukehart, 2013-02-19 Modern spectroscopic and instrumental techniques are essential to the practice of inorganic and bioinorganic chemistry. This first volume in the new Wiley Encyclopedia of Inorganic Chemistry Methods and Applications Series provides a consistent and comprehensive description of the practical applicability of a large number of techniques to modern problems in inorganic and bioinorganic chemistry. The outcome is a text that provides invaluable guidance and advice for inorganic and bioinorganic chemists to select appropriate techniques whilst acting as a source to the understanding of these methods. This volume is also available as part of the Encyclopedia of Inorganic Chemistry 5 Volume Set. This set combines all volumes published as EIC Books from 2007 to 2010, representing areas of key developments in the field of inorganic chemistry published in the Encyclopedia of Inorganic Chemistry. Find out more [CSIR NET Chemical Sciences Question Bank](#) Mocktime Publication, The Chemical Sciences question bank for CSIR NET is fully aligned with the official syllabus covering Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Materials, etc. It offers PDF downloads of past papers with answers and solutions, topic-wise question banks, advanced problem sets in Part C that require analytical reasoning beyond rote learning. The exam pattern, identical to the other NET subjects, has designated numbers of questions in Parts A, B, and C as per CSIR HRDG guidelines. Using this bank enables candidates to map syllabus to repeated high-weight topics, practise book-based MCQs and past paper items, and refine speed and accuracy under timed conditions. Alongside the question bank, affiliated books provide

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The Porphyrin Handbook: Bioinorganic and bioorganic chemistry, 2000 [Faculties](#),

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