

# Unlock Your MCAT Success: Dive into these Periodic Table Review Questions

MCAT - MEDICAL COLLEGE ADMISSION TEST adamjeeecoaching.blogspot.com

9. The number of elements in fourth long period of modern periodic table is:  
(a) 8 (b)  18  
(c) 32 (d) 10

10. Which of the following ions have noble gas electronic configuration:  
(a)  $Zn^{2+}$  (b)   $Sc^{3+}$   
(c)  $Cu^+$  (d)  $Cu^{2+}$

11. The first scientist to publish on the periodic table was:  
(a) Moseley (b) Dalton  
(c) Gay-Lussac (d)  Mendeleev

12. The first attempt to classify elements was made by:  
(a)  Dobereiner (b) Newland  
(c) Mendeleev (d) Lothar Meyer

13. Which series of outer transition elements is incomplete?  
(a) Series 3 (b)  Series 4  
(c) Series 2 (d) Series 1

14. The Valence shell configuration of f-block elements is:  
(a)  $ns^2(n-1)d^1$  (b)   $ns^2(n-1)d^1(n-2)f^{1-14}$   
(c)  $ns^2(n-2)f^{14}$  (d)  $ns^2(n-1)d^{1-10}$

15. In periodic table, the group number corresponds to the total number electrons in:  
(a) first shell (b) Second shell;  
(c) third shell (d)  Valence shell

16. In second & third period of the periodic table the periodic recurrence of properties takes place after:  
(a)  8 elements (b) 18 elements  
(c) 10 elements (d) 7 element

17. Which period of the periodic table is known as first very long period?  
(a) Period 4 (b) Period 5  
(c)  Period 6 (d) Period 7

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The Medical College Admission Test (MCAT) is a crucial step for aspiring medical students. It assesses their knowledge in various scientific areas, including chemistry. One of the key topics in MCAT chemistry is the Periodic Table. Mastering this subject can greatly enhance your chances of success on the

exam. In this article, we will dive deep into the Periodic Table, exploring its importance, understanding its organization, and solving some MCAT-style review questions along the way.

## Why is the Periodic Table Important for the MCAT?

The Periodic Table is a fundamental tool in chemistry. It provides a structured form for organizing and understanding the elements. Familiarity with the Periodic Table is crucial for interpreting trends, predicting chemical behavior, and solving various types of problems in the MCAT.



### MCAT Chemistry Review Questions The Periodic Table by Marvin C. McMaster(Kindle Edition)

★★★★☆ 4.3 out of 5

Language	: English
File size	: 228 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 8 pages
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Understanding the Periodic Table will give you an edge in answering questions related to atomic structure, electron configuration, chemical bonding, and reactions. Additionally, it will provide a solid foundation for topics like stoichiometry, thermodynamics, and kinetics.

## The Organization of the Periodic Table

The Periodic Table is organized based on the increasing atomic numbers of elements. When examining the table, you will notice rows known as periods and columns known as groups. Each element is represented by a unique symbol and is located in a specific position on the table.

Within these periods and groups, you will find patterns and trends that can be used to predict the properties and behavior of elements. These patterns allow us to classify elements into different categories such as metals, nonmetals, and metalloids. Understanding these classifications is vital for MCAT success.

## **MCAT Chemistry Review Questions**

Now that we have a basic understanding of the Periodic Table's significance and organization, let's put our knowledge to the test with some MCAT-style review questions.

### **Question 1:**

Which element has the electron configuration  $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2$ ?

- A) Carbon
- B) Nitrogen
- C) Oxygen
- D) Silicon

### **Question 2:**

Which group on the Periodic Table contains only nonmetals?

- A) Alkali metals
- B) Transition metals

- C) Halogens
- D) Noble gases

### **Question 3:**

Which element is a halogen?

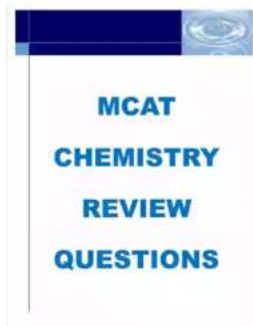
- A) Fluorine
- B) Sodium
- C) Calcium
- D) Iron

### **Question 4:**

Which element is a metalloid?

- A) Carbon
- B) Oxygen
- C) Silicon
- D) Potassium

The Periodic Table is a powerful tool for understanding the properties and behavior of elements. Mastering this concept is essential for success on the MCAT and is closely tied to various other topics in chemistry. By familiarizing yourself with the organization of the Periodic Table and practicing MCAT-style review questions, you will develop a stronger foundation in chemistry and increase your chances of achieving success in your medical journey.



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All premedical students have to take the MCAT. This question book covers the periodic table. This includes terms such as atomic number, elements, protons, metals, nonmetals, positive ions, negative ions, electrons, covalent bonds, groups, periods, and symbols of some of the elements.

Also included is a link to videos on the periodic table and contact information to request additional question books for free.



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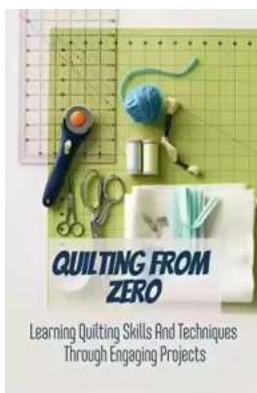
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