

CHEMBUDDY CHAPTER 3
3.1 CLASSIFICATION OF ELEMENTS



CHOOSE THE CORRECT ANSWER

NO	QUESTION	ANSWER
1	What is group in periodic table? A. The horizontal row with label 1 to 7 B. The horizontal row with label 1 to 18 C. The vertical columns with label 1 to 18 D. The vertical columns with label 1 to 7 only	A B C D
2	What is period in periodic table? A. The horizontal row with label 1 to 7 B. The horizontal row with label 1 to 18 C. The vertical columns with label 1 to 18 D. The vertical columns with label 1 to 7 only	A B C D
3	Which block is NOT TRUE in periodic table? A. b block B. d block C. f block D. p block	A B C D
4	Deduce period of element Y in periodic table. Given the electronic configuration of Y as $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^2$ A. period 1 B. period 2 C. period 3 D. period 4	A B C D
5	What is the charge on all the simple ions of elements of group 17? A. 1+ B. 2+ C. 1- D. 2-	A B C D
6	Sodium (Z=11) and Silicon (Z=14) are examples of two elements which belong to the same A. group B. period C. block D. compound	A B C D

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7	${}_{17}^{37}\text{P}$ What is the position of this element in the periodic table? <table><thead><tr><th></th><th>Block</th><th>Group</th><th>Period</th></tr></thead><tbody><tr><td>A.</td><td>p</td><td>17</td><td>3</td></tr><tr><td>B.</td><td>p</td><td>15</td><td>3</td></tr><tr><td>C.</td><td>p</td><td>7</td><td>3</td></tr><tr><td>D.</td><td>s</td><td>5</td><td>3</td></tr></tbody></table>		Block	Group	Period	A.	p	17	3	B.	p	15	3	C.	p	7	3	D.	s	5	3	A B C D
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8	${}_{29}^{63}\text{Q}$ What is the position of this element in the periodic table? <table><thead><tr><th></th><th>Block</th><th>Group</th><th>Period</th></tr></thead><tbody><tr><td>A.</td><td>s</td><td>2</td><td>4</td></tr><tr><td>B.</td><td>s</td><td>12</td><td>4</td></tr><tr><td>C.</td><td>d</td><td>9</td><td>3</td></tr><tr><td>D.</td><td>d</td><td>11</td><td>4</td></tr></tbody></table>		Block	Group	Period	A.	s	2	4	B.	s	12	4	C.	d	9	3	D.	d	11	4	A B C D
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9	An element R has a valence electronic configuration of $5s^2 4d^6$. What is the period and block of R in the Periodic Table? <table><thead><tr><th></th><th>Block</th><th>Period</th></tr></thead><tbody><tr><td>A.</td><td>s</td><td>5</td></tr><tr><td>B.</td><td>s</td><td>4</td></tr><tr><td>C.</td><td>d</td><td>5</td></tr><tr><td>D.</td><td>d</td><td>4</td></tr></tbody></table>		Block	Period	A.	s	5	B.	s	4	C.	d	5	D.	d	4	A B C D					
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10	An electronic configuration for element T is $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^4$. Determine the group of element T A. 4 B. 14 C. 6 D. 16	A B C D																				
11	An electronic configuration for element U is $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^8$. Determine the group of element U. A. 8 B. 10 C. 14 D. 16	A B C D																				

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12	The proton number for element V is 32. What is the valence orbital of element V? A. 3d 4p B. 4p C. 4s 4p D. 3d	A B C D
13	Elements in the Periodic Table are arranged in order increasing A. nucleon number B. proton number C. number of electron D. number of neutron	A B C D
14	Elements in the same group will have similar A. conductor properties B. thermal properties C. physical properties D. chemical properties	A B C D
15	Elements in Group 2 are known as A. alkaline earth metal B. noble gases C. alkali metal D. halogen	A B C D

