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SSLC -Chemistry -Class -07

Periodic Table and Electronic Configuration

d block elements

Look at the table given below.

സബ് ഷെൽ ഇലക്ടോൺ വിന്യാസം Sub shell electronic configuration	അവസാന ഇലക്ട്രോൺ പൂരണം നടന്ന സബ് ഷെൽ Sub shell electronic configuration	ബാഹ്യതമ ഷെൽ നമ്പർ Sub shell electronic configura tion	പീരിയഡ് നമ്പർ Period Number	ហ្ររូស្ម័ ៣៣៧០ Group number	
1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ³ 4s ²	d	4	4	5	
1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ⁵ 4s ²	d	4	4	7	
1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ¹⁰ 4s ²	d 4		4	12	
	ດໃຫງວານ Sub shell electronic configuration 1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ³ 4s ² 1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ⁵ 4s ²	స్టాలు సంజుంత త్రాలు సంజుంత స్ట్రింబాం Sub shell electronic configuration 1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ³ 4s ² 1s ² 2s ² 2p ⁶ 3s ² 3p ⁶ 3d ⁵ 4s ² d	బాబా ఉచింది బైల ఉండింది యాలుం Sub shell electronic configurationబైల ఉండికంణం యాయిం Sub shell electronic configurationఅండింది యాయిం Sub shell electronic configurationఅండింది యాయిం Sub shell electronic configuration1s2 2s2 2p6 3s2 3p6 3d3 4s2d41s2 2s2 2p6 3s2 3p6 3d5 4s2d41s2 2s2 2p6 3s2 3p6 3d5 4s2d4	mumi addressed allogoma Sub shell electronic configurationmud addressed addressed sub shell electronic configurationaddressed addressed addressed addressed addressed addressedaddressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed addressed 	

The period number is same as the shell number of the outer most shell in the subshell electronic configuration.

The group number of the d block elements will be the same as the sum of electrons in the outermost s subshell and the number of electrons in the preceding d subshell.

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d block elements are those in which the last electron is filled in the d subshell of the penultimate shell.

They are also known as transition elements.

<mark>f block elements</mark>														
	<i>f</i> -block													
	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

The f block elements are the elements coming after lanthanum and actinium and are placed in two rows at the bottom of the periodic table.

The last electrons in these elements are filled up in the antepenultimate shell. The elements in the first row are called Lanthanoids and those in the second row are called Actinoids.

These elements belong to the 6 th and 7 th periods respectively.

Characteristics of s block elements

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Questions

1. Write the subshell electronic configuration of Zinc ,($_{30}$ Zn) ?

a) Find out the Block, Period and Group of this element?

2. The subshell electronic configuration of an element X is given below. (Symbol is not real). Answer the following questions.

$X: 1s^2 2s^2 2p^6 3s^2 3p^6 3d^6 4s^2$

a) Find out the Atomic number ?

- b) Identify the block ?
- c) Write the group number , and period number ?
