

(d) Increases

PERIODIC TABLE

CHEMISTRY

10TH ICSE

1.	r r r r r r r r r r r r r r r r r r r		
		b) 11 d) 18	
2.	An alkaline earth metal is:	KIIGH	
	` '	b) Calcium	
3.	(c) Lead (d) The number of electrons present in	d) Copper the valence shell of halogen is:	
٥.	(a) 1 (b) 3	
4.	(c) 5 (d) If an element A belongs to period 3	d) 7 and Croup II then it will have :	
4.	 (a) 3 shells and 2 valence electron (b) 2 shells and 3 valence electron (c) 3 shells and 3 valence electron (d) 2 shells and 2 valence electron 	s s s	
5.	size:		
		b)increases	
6.	(C)Remains the same (D)Sometimes increases and sometimes decrease 6. On moving from left to right across a period of the periodic table, the non-		
0.	metalliccharacter of the elements :	a period of the periodic table, the non	
		b) Increases d) Depends on the period	
7.		a period of the periodic table, the ionization	
	•	b) Decreases	
		d) Remains the same	
8.	 8. Ionisation potential increases over a period from left to right becaus (a) Atomic radius increases and nuclear charge increases (b) Atomic radius decreases and nuclear charge decreases 		
	(c) Atomic radius increases and n	_	
	(d) Atomic radius decreases and n	uclear charge increases	
9.	On moving from left to right across electron affinity of the elements in (a) Goes up and then down (groups 1 to 7:	
		b) Decreases and then increases d) Decreases	
10.	(a) Neon (ron affinity is zero : b) Sulphur d) Argon	
11.		element which has high electron affinity is :	
	` '	b) Carbon d) Fluorine	
	On moving from left to right across a electronegativity:		
(a (l	(a) Depends on the number of valen (b) Remains the same (c) Decreases	ce electrons	

13. Among the elements given below, the element with the least electronegativity is : (b) Carbon (a) Lithium (c) Boron (d) Fluorine 14. An element with the atomic number 19 will most likely combine chemically with theelement whose atomic number is: (a) 17 (b) 11 (c) 18 (d)20

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Fill in the Blanks

Chapter 1. Periodic Properties and Variations of Properties

O.Fill in the blanks in the following statements, with suitable words:

-C	,
1.	The modern Periodic Table hasperiods.
2.	Eachin the Periodic Table is comprised of elements having
	the same
	number of electron shells.
3.	Elements in a period, all have the same number ofin their atoms.
4.	Elements in a group, all have the same number of
5.	The most active metals are located in 1 and 2 of the Periodic Table.
6.	The most reactive non-metals comprise group of the Periodic Table.
7.	The elements ofare known as typical elements.
8.	The elements occupying left and right side groups of Periodic Table are
	called
١./	elements.
9.	The rare gases are placed ingroup at the end.
4.0	
10.	The properties of elements are periodic function of their
11.	The atomic sizeas we move left to right across the period,
	because the
	remains the same.
12.	The metallic characterin a group as one moves from top to bottom.
13.	The metallic characterin a period as one moves from right to left.
14.	In a period or in a group, the larger the atomic size of an element,
	the
	metallic is the element.
15.	Moving across a of the periodic table, the elements show
	increasing
$\Lambda \Lambda$	character.
	The amount of energy involved in the reaction $X + \text{energy } \mathbb{Z} X^+ + e^-$ is known
a	s the
	of the element X.
17.	
18.	Down the group, electron affinity
19.	The higher the electron affinity of a non-metal,chemically reactive the
	non-metal is.
20.	The tendency to gain an electron on moving down a group and. on
	moving across a period in the Periodic Table.
21.	Elements having high ionization potential have electron affinities.
22.	The electronegativity of elements across a period and down a group.
23.	In general, non-metals areelectronegative than metals.
24.	On moving from left to right in a given period, the number of shells
25.	Element X belongs to group 2 and period 3 of the Periodic Table. It has
	electrons in
	the outer most shell.



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EXPLAIN IN DETAIL

- Q. 1. Explain why the elements placed in the same group of the periodic table have the samechemical properties?
- Q. 2. Why group IA elements are called alkali metals?
- Q. 3. Why sodium is a metal while sulphur is a non-metal?
- Q. 4. Alkali metals are good reducing agents.
- Q. 5. Why are the elements sodium and chlorine in the same period of the periodic table?
- Q. 6. Sodium atom, Na forms the positive ion Na+, but chlorine atom Cl, does not form the positive Cl+ ion.
- Q. 7. Potassium atom is larger than sodium atom. Why?
- Q. 8. Magnesium atom is smaller than calcium atom. Why?
- Q. 9. Magnesium atom is smaller than sodium atom. Why?
- Q.11. Mg2+ ions is smaller than O2- ion although both are iso-electronic. Explain.
- Q. 12. Why ionization potential of the element increases across a period?
- Q. 13. Noble gases have zero electron affinity values.
- Q. 14. Why elements with low ionization potential exhibit metallic properties?