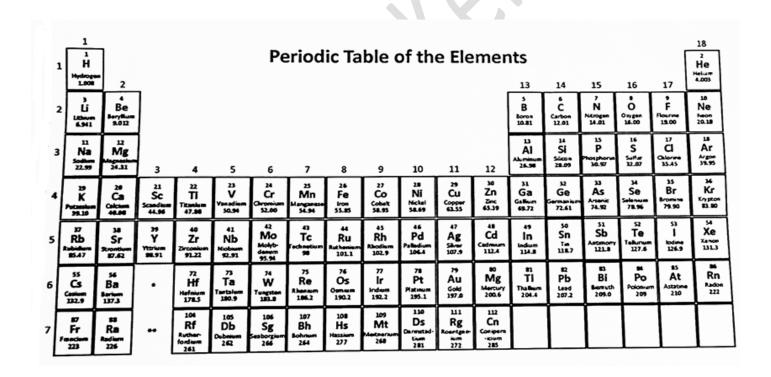
# **Chemistry Class 9**

## Periodic Table and Periodicity of Properties

Important Multiple Choice Questions (mcq's)



1) Total number of p	eriods in the periodic table are
A) 7	
B) 8	
C) 11	
D) 10	
Answer: A (7)	
2) An element whos	e last electron enters into s-subshell is a block element.
A) p	
B) d	
C) s	,,0,1
D) f	
Answer: C (s)	
3) Which one of the	following group contains halogens?
A) I A	
B) II A	

0) 1/11 4
C) VII A
D) VII B
Answer: C (VII A)
4) Group II A elements are also called
A) Alkali metal
B) Alkaline earth metals
C) Carbon family
D) Halogens
Answer: B (Alkaline earth metals)
5) An element of 2 <sup>nd</sup> period has number of shells.
A) 6
B) 4
C) 3
D) 2
Answer: D (2)
▼

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A) II A	
B) VI A	
C) III A	
D) VIII A	
Answer : B ( VI A	<mark>.)</mark>
7) Main group e	lements are arranged into groups.
A) 3	
B) 6	
C) 5	
D) 8	
Answer: D (8)	
8) Period numbe	er of S <sup>16</sup> <sub>32</sub> is
A) 3	
B) 4	
C) 5	

D) 6	
Answer: A (3)	
9) Which of the following	ng element belongs to Group VII A?
A) O	
B) N	
C) C	
D) F	
Answer: D (F)	
10) Group VIII A elemei	nts are called
A) Halogens	
B) Alkaline earth metals	
C) Oxygen family	
D) Noble gases	
Answer: D (Noble gases	
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A) Transition	metals	
B) Inert		
C) Represei	tative	
D) None of t	em	
Answer: C (R	epresentative)	
12) Element	of the same group have same properties.	
A) Chemical		
B) Physical		
C) Both chen	ical and physical	
D) None of tl	em	
Answer: A (C	nemical)	
13) Hydroge	is a member of period .	
A) 2		
B) 4		
C) 6		

D) 1
Answer: D (1)
14) Elements of the same has same number of valence shell electrons.
A) Period
B) Group
C) House
D) None of them
Answer: B ( Group )
15) Boron Family is the name of Group
A) IVA
B) III A
C) V A
D) VIA
Answer: B ( IIIA)

	.8 <sup>th</sup> century , elements were known .
A) 23	
B) 47	
C) 39	
D) 68	
Answer: A (23)	
17) Atomic numbe	r was discovered by Moseley in
A) 1990	
B) 1913	
C) 1880	
D) 2009	
Answer: B (1913)	
18) It was noticed	that could serve as a base for systematic arrangement of elements.
A) Atomic mass	
B) Neutron numbe	
C) Atomic numbe	

D) none of them
Answer: C ( Atomic number )
19) The horizontal rows of the periodic table are called
A) Groups
B) Table
C) Bond
D) Periods
Answer: D (Periods)
20) Number of elements in fifth period are
A) 2
B) 8
C) 18
D) 32
Answer: C (18)

A) Normal	
B) Transition	
C) Main group	
D) None of the	em .
Answer: B (Tra	<mark>insition)</mark>
22) Mg is pres	ent in which group?
A) I A	
B) II A	
C) III A	
D) IV A	
Answer: B (II A	
23) An elemer	nt has 5 valence shell electrons, it is a member of which group?
A) II A	
B) III A	
C) IV A	

#### D) V A

### Answer: D (VA)

- 24) Al 13 is a member of which period?
- A) 1<sup>ST</sup>
- B) 2<sup>ND</sup>
- **C)** 3<sup>RD</sup>
- D) 4<sup>TH</sup>

## Answer: C (3<sup>rd</sup> )

- 25) \_\_\_\_ properties depends on the sizes of the atoms.
- A) Chemical
- **B) Physical**
- C) Neurological
- D) None of them

**Answer: B (Physical)** 

A) Li	
B) Na	
C) K	
D) H	
Answer: C (K)	
27) As we move from top	to bottom in a group shielding effect
A) Stays constant	
B) Decreases	
C) Both a and b	
D) Increases	.01
Answer: D (Increases)	
28) As we move from left	to right in a period the number shells in elements
A) stays constant	
B) Increases	
C) Decreases	

D) None of them	
Answer: A ( stays o	<mark>constant)</mark>
29) Shielding effec	t of Sn is greater than which of the following?
A) Cs	
B) C	
C) Rn	
D) Po	
Answer: B (C)	
30) Which one of t	he following pair of elements have same number of valence shell electrons?
A) Li, B	,0)
B) K, Ne	
C) 0, 8	
D) None of them	
Answer: C (O,S)	

31) The size of an atom depends upon its
--

- A) Electronic configuration
- B) Chemical properties
- C) Periodic table
- D) None of them

**Answer: A (Electronic configuration)** 

32) Which one of the following has the smallest atomic size?

- A) K
- B) Al
- C) H
- D) Po

Answer: C (H)

- 33) The atomic radius \_\_ in any given period as you move across the period.
- **A) Decreases**
- B) Increases
- C) remains same

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D) None of them
Answer: A (Decreases)
34) The atomic radius in any given group as you move from top to bottom.
A) Decreases
B) Increases
C) remains same
D) None of them
Answer: B (Increases)
35) Which one of the following has the largest atomic size?
A) Ne
B) Xe
C) Sn
D) Fr
Answer: D (Fr)

A) Li	
B) Be	
C) B	
D) C	
Answer: C ( C )	
37) Which one of th	e following has higher ionization energy as compared to Ne?
A) F	
B) He	
С) Н	
D) Li	.,0
Answer: B (He)	
38) Ionization energ	gy as we move from left to right in a period.
A) Increases	
B) Decreases	
C) Remains same	

D) None of them
Answer: A (Increases)
39) Ionization energy is a measure of the extent to which the nucleus the outermost electron.
A) Repels
B) Compress
C) Attracts
D) None of them
Answer: C (Attracts)
40) Greater shielding effects results in a attraction of the nucleus for the valence electrons.
A) Greater
B) Higher
C) Constant
D) Weaker
Answer: D (Weaker)

A) Anion	
B) Cation	
C) Molecule	
D) None of them	
Answer: A (Anion)	
42) As you move from le	ft to right across a period, the electron affinity generally
A) Decreases	
B) Increases	
C) Remains same	
D) None of them	3,01
Answer: B (Increases)	
43) Due to increase in	added electron binds less tightly to the nucleus.
A) Electronegativity	
B) Shielding effect	
C) Ionization energy	

D) None of them
Answer: B (Shielding effect)
44) Electronegativity is the ability of an atom to attract the towards itself in a chemical bond.
A) Proton
B) Neutron
C) Electron
D) All of them
Answer: C (Electron)
45) Which of the following has the highest electronegativity?
A) F
B) O
C) S
D) H
Answer: A (F)

A) F	
B) S	
C) CI	
D) H	
Answer: C (CI)	
47) Electron affinity is the amount of energy atom to form uninegative gaseous ion.	when an electron is added in the valence shell of an isolated
A) Absorbed	
B) Released	X O
C) Emitted	
D) Both b and c	
Answer: D (Both b and c)	
48) Xe belongs to which group?	
A) III A	
B) IV A	

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D) VIII A	
Answer: D ( VIII A )	
49) Which of the fo	llowing has the largest atomic size?
A) Rb	
B) Sr	10
C) In	
D) Sn	
Answer: A (Rb)	. 180
50) Which one of th	ne following has the highest ionization energy?
A) H	
B) Ne	
C) Ar	
D) He	