

PERIODIC TABLE

	PRACTISE SET-1	F.M: 30						
1.	Fill in the blanks:							
	a. Ionisation potential across a period and down a group.							
	b. All the lanthanides and actinides belong to group in the periodic table.							
	c possess the highest E.N and possess the highest E.A.							
	d the nuclear charge, non-metalic is the element.							
	e. Solid member of group 17 is							
	f. The smallest noble gas is							
	g. Special name given to group 16 elements is	[10]						
2.	Answer the following:							
	a. What are the factors which control the Ionisation potential?							
	b. Arrange the following:							
	i. B, O, Li, N(increasing I.P)							
	ii. Rb, Na, Li, Cs (increasing I.P)							
	iii. Mg, Cl, Si, Na (decreasing I.P)							
	c. What is electron affinity? How it changes across the period?							
	d. Arrange the following:							
	i. S, Al, Mg, P (increasing E.A)							
	ii. I, F, Br, Cl (decreasing E.N)							
	iii. O, Be, C, N (Increasing reducing property)							
	iv. Cs ,Rb, Na, Li (Increasing atomic size)							
	v. B, N,O, Li, (increasing Metallic property)	[1+3+2+5]						
	In the third period, the element with smallest atomic size is-							
(a)	Sodium (b) Chlorine (c) Magnesium (d) Oxygen	[1]						
4.	Element A is placed in group 17 and B in group 2. Now between A and B, identify the element which posses	SS-						
	i. Highest atomic size.							
	ii. Lowest ionization potential.							
	iii. Highest non-metallic nature.	[3]						
5.	81 (
	i. Reducing nature.							
	ii. Electronegativity.							
	iii. Ionisation Potential	[3]						
6.	Explain why?							
	i. Atomic size increases from group 17 to 18.							
	ii. I.P decreases down the group.	[2]						



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PRACTISE SET-2

1. Arrange the following:

- i. Cl, Al, Na, P (Increasing electronegativity)
- ii. CaO, SiO₂, K₂O, Al₂O₃ (Increasing basic character)
- iii. I, Br, F, Cl (decreasing metallic nature)
- iv. C, B, Li, F (decreasing atomic size)
- v. K, Li, Na (increasing Ionisation potential)
- vi. Mg, Li, K, Al(increasing metallic character)
- vii. N,O,Cl,Be(increasing E.N)
- viii. Cl,N,si,C(increasing atomic radius)
- ix. Ca,Al,K,Li(increasing reducing power)

[9]

2. Answer the following with respect to the following modern periodic table:

A							В
С	D	Е	F	G	Н	I	J
K	L	M	N	0	P	Q	R

- i. Arrange D,I,C,G in increasing order of metallic character.
- ii. Arrange M,Q,K,O in decreasing order of ionisation potential.
- iii. The nature of bond present in LI₂

[3]

3. Answer the following with respect to the following modern periodic table:

A					В	
	C	D		E	G	Н
		I	J		K	L
M	N					

- i. Element with strongest reducing power.
- ii. Element with highest E.A
- iii. Two elements of different group with similar chemical property.
- iv. Group number of J
- v. Formula of the compound between E and N.

[5]

- 4. Answer the following with reference to the modern periodic table:
 - i. Name the second element of period 3
 - ii. How many elements are present in period 4
 - iii. Name the elements having the highest E.A
 - iv. Name the most E.N element
 - v. Name the non-metallic element of group 1

[5]

- 5. In period 3, element A is to the right of element of element B.
 - i. The element A would have a _____ atomic size than B.
 - ii. The element B would have ______ ionisation potential than A.
 - iii. The element A would have a _____ E.N than B.

[3]

6. Answer the following with respect to the following modern periodic table:

Group No	1	2	13	14	15	16	17	18
2 nd Period	Li		D			О	J	Ne
	Α	Mg	Е	Si		Н	M	
	R	T	I		0	U		Y

- i. Identify the most E.N element.
- ii. Identify the most reactive element of group 1
- iii. Identify the element from period 3 with least atomic size.
- iv. How many valence electrons are present in Q
- v. Which element from group 2 would have the least I.P.

[5]