

ARJUNA NEET BATCH



CLASSIFICATION OF ELEMENTS & PERIODICITY IN PROPERTIES DPP-07

Which of the following is affected by stable configuration of an atom:-

- (a) Electronegativity E.N. (b) Ionisation potential 7. P.
- (c) Electron affinity E.A. -> If an element have stable configuration, the Correct answer is: tendency to gain an electron decrease. due to which E.A. of Nitrogen is less

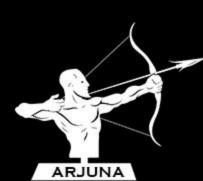


(A) Only electronegativity X

- (B) Only ionisation potential. ×
- Electron affinity and ionisation potential igwedge
- (D) All of the above >

E.N. - tendency to attract shared pair of electron toward itself H > Cl \iff H - Cl

Li novelation with stable electionic configuration



I.P. -> I.P increases for stable electronic configurations

Expected order of I.P.: C<N<0 but actual order: C<O<N - because af stable half fillet e.c. of Nitrogen.

odd one out

Which of the following elements have the different value of electronegativity:-



(A) H

(C) Te

(B) S

Hand P have almost same electronegativity

E.N. along the period from left to right increases. E.N. down the group from top to bottom decreases.

decreases.

E.N. 265>P

E.N. of Te < S

:. ENTE ~ P)

:. Shas different value



Correct order of electronegativity of N, P, C and Si is:-



(A)
$$N < P < C < Si$$

(C)
$$N = P > C = Si$$

(B)
$$N > C > Si > P$$

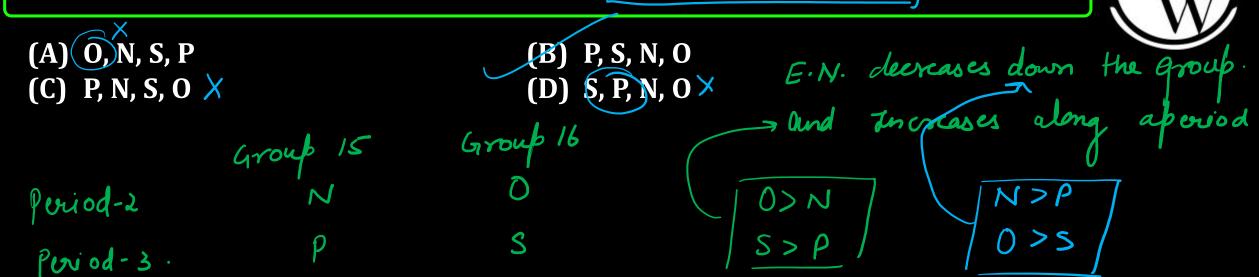
(D)
$$N > C > P > Si$$

E.N., increases along a period and decreases down the

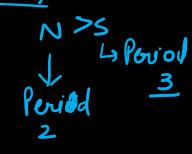


Correct order of E.N.: N>C>P>Si

Electronegativity of the following elements increases in the order.



Increasing Correct E.N. order: P<S<N<0





The correct set of decreasing order of electronegativity is:-



(A) Li, H, Na (C) H, Li, Na (B) Na H, Li

(D)/Li,Na, H>

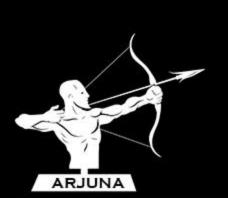
H is also electropositive like Group 1 metals.

and hence can be placed above them

H, Li, Na

L'e decreases down the groups.

Decreasing order of E.N.: H>Li>Na



Polarity of a bond can be explained by:-



- (A) Electron affinity
- Electronegativity (D) All of the above
- (B) Ionisation potential

Electronegativity (D) All of the above

(A)
$$E \cdot A \rightarrow \text{complete gain of electron} \qquad \times_{cg} + e^- \rightarrow \times_{cg}$$

(B) $I \cdot P \rightarrow \text{complete xemoval of electron} \qquad \times_{cg} + e^- \rightarrow \times_{cg}$
 $\times_{cg} \rightarrow \times_{cg} \times_{cg} + e^- \rightarrow \times_{cg} \times_{cg}$
 $\times_{cg} \rightarrow \times_{cg} \times_$



Mulliken scale of electronegativity uses the concept of :-



- (A) E. A. and EN of pauling
- (C) E.A. and I.P.

- (B) E. A. and atomic size
- (D) E.A. and bond energy

According to Mulliken, Electronegativity =
$$\frac{I.P. + E.A}{2}$$
 units of I.P. and E.A. = eV (dectron volt)



The pair with minimum difference in electronegativity is:-



(A) F, Cl → large difference.

(C) P, H

(B) C, H → Carbon is more E·N than H.

P, H

(D) Na, Cs - Electro pontine, leus electro negativity
but Nou and Cs lics fair to cacho ther
in same group... hey show E.N.

difference mon the Handp.

(C) E.N. of P and H are almost similar.

: they have minimum difference of E.N.



Least electronegative element is:-



- (A) I
- (C) C



Group 1 element and lies down in the group. E.N decreses down the group and increases along a period.

.: Cs is least E.N than other elements given in the options

as it his lift to all edement as well as bottom in the group.

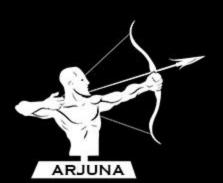


The electronegativities of the following elements H, O, F, S and Cl increase in the order:-



(A)
$$H < 0 < F < S < Cl$$

(C)
$$H < S < 0 < Cl < F$$



Correct E.N order: H< S<Cl <0 < F





Thank You