Answer the following multiple choice questions on electronegativity.

1. What is the electronic configuration of the least electronegative element? a) [He]2s ¹ b) [Ne]3s ² c) [Xe]6s ¹ d) [Xe]6s ²
2. Which is the correct order of electronegativity of the following elements? a) C < N < Si < P
3. Central atom of which of the following molecules has highest electronegativity? a) SiF ₄ b) CF ₄ c) SiH ₄ d) CH ₄
4. Electronegativity of noble gases may be estimated using- a) Pauling's scale b) Mulliken scale c) Allred-Rochow scale d) All of these
5) On which factors does electronegativity vary? a) Oxidation state b) Hybridisation of the atom c) Ionisation energy d) All of these
6) What is the electronegativity of bromine in Allred-Rochow scale? a) 2.75 b) 1.41 c) 1.96 d) 3.10
7) Calculate electronegativity of hydrogen from the following data: $E_{\text{H-H}} = 458 \text{ kJ/mol}$ $E_{\text{F-F}} = 155 \text{kJ/mol}$ $E_{\text{H-F}} = 565 \text{ kJ/mol}$ $\chi_P(F) = 4.0$ a) 6.24 b) 2.24 c) 4.24 d) 2.00
8) How does electronegativity vary in group 11? a) Cu > Au > Ag b) Cu > Ag > Au c) Au > Ag > Cu d) Ag > Cu > Au
9) Which acidity sequence cannot be explained using the trend of variation of electronegativity?
a) $C_2H_2 > C_2H_4 > C_2H_6$ b) HF > NH ₃ > H ₂ O c) HClO ₂ < HClO ₃ < HClO ₄ d) HF < HCl < HBr < HI
10) Which of the following statement is false? a) Electronegativity is affected by d-level contraction as well as lanthanide contraction. b) Electronegativity of period 2 elements is much higher than those of period 3 elements.

- b) Electronegativity of period 2 elements is much higher than those of period 3 elements.
 c) Electronegativity of f-block elements increase gradually from left to right along a period.
 d) Electronegativity of methyl group is higher than that of hydrogen.