## Model Question paper Periodic Classification - I 2

11th Standard							
	Chemistry	Reg.No.:					
	I. Answer all the questions.		_	_			
II. Use blue pen only.							
Time: 01:30:00 Hrs							ks:50
٠.	Part - A					10 x :	1 = 10
1)	Which one among the following species has the largest atomic radius:						
۵۱	(a) Na (b) Mg (c) AlSi (d) Si						
2)	Which of the following has highest ionization potential?						
٦١	(a) Sodium (b) Magnesium (c) Carbon (d) Fluorine						
3)	With respect to chlorine, hydrogen will be						
۵\	(a) Electropositive (b) Electronegative (c) Netural (d) None of these						
4)	Halogens belong on the:						
-/	(a) s-block (b) p-block (c) d-block (d) f-block (e) Zero group of the periodic table						
5)	Which arrangement of the following set of atoms is in order of increasing atomic radius :Na,Rb,K and Mg						
۵۱	(a) Na,Mg,K,Rb (b) Na,K,Mg,Rb (c) Mg,Na,K,Rb (d) Mg,Na,Rb,K						
6)	Characteristic of transaction elements is incomplete in:						
\	(a) d-orbitals (b) f-orbitals (c) p-orbitals (d) s-orbitals						
7)	Which of the following will have lowest first ionization enthalpy?						
0)	(a) Na (b) Al (c) Mg (d) Si						
8)	Which of the following atoms is likely to give off more energy on gaining an electron?						
٥)	(a) Na (b) Mg (c) A1 (d) C1						
9)	Transition metals have the electronic configuration (a) $ns^2 nd^{1-10}$ (b) $ns^2 np(n-1)d^{1-10}$ (c) $ns^2(n-1)d^{1-10}$ (d) $ns^2 np^6(n-1)d^{1-10}$						
10	In the first transition series the incoming electron enters the						
10,	(a) 4d-orbital (b) 3d-orbital (c) 5d-orbital (d) 6d-orbital						
	Part - B					5 x 1	2 = 10
11	State Modern Periodic Law					J / /	- 10
	Which of the following pairs of elements would you expect to have lower first ionization enthalpy?						
	(a)Cl or F						
13	Which of the following pairs of elements would you expect to have lower first ionization enthalpy?						
	(a)Cl or S						
14	Which of the following pairs of elements would you expect to have lower first ionization enthalpy?						
	(a)Kr or Xe.						
15)	Why Noble gases have zero electron gain enthalpy?						
	Part - C					5 x 3	3 = 15
	Name the different blocks of elements in periodic table. Give the general electronic configuration of each block.						
	Why nitrogen has higher I.E value than oxygen?						
	Out of fluorine and chlorine, which has greater electron gain enthalpy?						
	Why are d-block elements called transition elements?						
20,	Among the elements Li,K,Ca,S and kr which one has the lowest first ionization enthalpy? Which has the highest first ionization enthalpy?					<b>ງ</b>	c = 15
21	Part - D  What do you mean by the term electron gain enthalpy?How does electron gain enthalpy change along a period and in a group?					5 X :	5 = 15
	Explain the size of group C1>Na <sup>+</sup>						

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23) What is meant by electronegativity? On what factors does it depend?