1 Chemistry, 11th, July(2020) Name: ______, ID:_____, ID:_____,

Paper: <u>Chemistry</u>		PUBLIC SCH	Total Marks: 40
Month Test:July	-	KPS +	Obt. Marks:
Theme/Unit: 1	**	Shute 1993 *	Grand Total:
Objective / Subjective:	ID:		Time:
Name:	class:	_11th	Section:
Q NO. 1: Choose the ri	ght answer. /	/10	
1) The mass of one m	ole of electrons i	S:	
(a) 1.008mg	(b) 0.55mg	(c) 0.184mg	(d) 1.673mg
The largest number of molecules are present in:			
(a) 3.6g of water	(b) 4.8g of C ₂ H ₅ G	OH (c) 2.8g of CO	D (d) 5.4g of N_2O_5
3) Formula of carboca	tion is:		
(a) CH ₂ ⁺	(b) CH ₃ ⁺	(c) CH ₄ ⁺	(d) CH ₄ ⁻
4) The volume occupied by 1.4g of N_2 at S.T.P is:			
(a) 2.24 dm ³	(b) 22.4 dm ³	(c) 1.12 dm ³	(d) 112 dm ³
5) Ascorbic acid is chemical name of:			
(a) Vitamin B	(b) Vitamin C	(c) Vitamin D	(d) Vitamin E
6) Diameter of atom is	:		
(a) 0.2 nm	(b) 2.0 nm	(c) 0.22 nm	(d) 2.02 nm
7) (17) The molar volu	ime of CO ₂ is ma	ximum at:	
(a) S.T.P (b) 127ºC and 1at	tm (c) 0°C and 2	atm (d) 273°C and 2atm
8) Tin has isotopes:			
(a) 7 (b) 9 (c) :	5 (d) 11	
9) Yield is usually cal	culated to check	the of given	reaction.
(a) Concentration b) Error c) Efficiency d) Rate			
10) An isotope was first discovered by:			
(a) Rerzelius	a) Crooke	Chadwick d) Sc	oddy
			Judy

Q No. 2: Short Questions. /18

- 1) Define relative atomic mass?
- 2) Write steps to calculate empirical formula.
- 3) Calculate the mass of 10^{-3} mole of MgSO₄.
- 4) Write steps to identify a limiting reactant.
- 5) Why actual yield is always less then theoretical yield?
- 6) 180g of glucose and 342g of sucrose have same number of molecules but different number of atoms present in them. Why?
- 7) Calculate the percentage of nitrogen in NH₄NO₃.
- 8) No individual neon atom in the sample of element has mass of 20.18 amu. Justify it?
- 9) Give conditions required to perform stoichiometric calculations?

Q No. 3: Give detailed answers. /12

- 1) How can we determine the relative atomic mass by mass spectrometry? /4
- A well-known ideal gas is enclosed in a container having volume 500 cm³ at S.T.P. Its mass comes out to be 0.72g. What is the molar mass of this gas? /4
- 3) Calculate the number of grams of AI_2S_3 which can be prepared by the reaction of 20g of Al and 30g of S. How much the non-limiting reactant is in excess? /4