

CLASS: XIth
DATE:
SUBJECT: CHEMISTRY
DPP No.: 2

Topic :- SOME BASIC CONCEPTS OF CHEMISTRY

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1.	The mass of nitrogen per gram hydrogen in the times the mass of nitrogen in the compound am a) Law of conservation of mass c) Law of multiple proportions			e compound hydrazine is exactly one and half				
2.	Strength of the solution is given by: a) $S = N \times E$ wt. of solute							
	b) $S = \frac{\text{wt. of solution}}{\text{volume of solution}}$ c) $S = M \times \text{mol. wt.}$ d) All of the above	on in litre						
3.	0.5 mole of H_2SO_4 is mi formed is: a) 0.2	xed with 0.	2 mole of Ca(OH) ₂ . The	maximum n	umber of mole of CaS0 d) 1.5)4	
4.	On dissolving 1 mole easolution of 1 N strength a) HCl		ollowing acids	s in 1 litre c) HNO_3	water, the ac	cid which do not give a d) H_3PO_4	1	
5.	The empirical formula of a compound is CH. Its molecular weight is 78. The molecular formula of the compound will be: a) C_2H_2 b) C_3H_3 c) C_2H_4 d) C_2H_6							
6.	a) C_2H_2 b) C_3H_3 c) C_2H_4 d) C_2H_6 Of two oxides of iron, the first contained 22% and the second contained 30% of oxygen by weight. The ratio of weights of iron in the two oxides that combine with the same weight of oxygen, is							
	a) 3:2	b) 2:1		c) 1:2		d)1:1		
7.	The total number of properties a) 3.01×10^{24}	otons in 10 b) 4.06 × 1		carbonate c) 2.01 ×		(23×10^{23}) d) (3.02×10^{24})		

8.	In the following reaction, $MnO_2 + 4HCL \rightarrow MnCl_2 + 2H_2O + Cl_2$							
	2 mol MnO ₂ reacts with 4 mol of HCl to form 11.2 L Cl ₂ at STP. Thus, per cent yield of Cl ₂ is							
	a) 25%	b) 50%	c) 100%	d)75%				
9.	The normality of 1% (wt./vol.) H_2SO_4 is nearly:							
	a) 0.02	b) 0.2	c) 0.1	d) 1				
10.	The mass of 1 mole of electrons is							
	a) 9.1×10^{-28} g	b) 1.008 mg	c) 0.55 mg	d) 9.1×10^{-27} g				
11.	. 74.4 g of a metallic chloride contains 35.5 g of chlorine. The equivalent weight of the n a) 19.5 b) 35.5 c) 39.0 d) 78.0							
	u) 17.0	5) 00.0	c) 53.0	4)70.0				
12.	Equivalent weight of an acid							
	a) Depends on the reaction involvedb) Depends upon the number of oxygen atoms present							
	c) Is always constant	aniber of oxygen atoms p	Diesent					
	d) None of the above							
	a) None of the above							
13.	Which of the following is not a mixture?							
	a) Gasoline	b) Distilled alcohol	c) LPG	d) lodized table salt				
14.	The equivalent weight of a divalent metal is 31.82. The weight of single atom is:							
	a) $32.77 \times 6.02 \times 10^{23}$ b) $63.64 \times 6.02 \times 10^{23}$ c) 63.64 d) $63.64/6.02 \times 10^{23}$							
1 5	Number of mole of 1 m ³ gas at NTP are:							
15.	a) 44.6	gas at NTP are: b) 40.6	c) 42.6	d) 48.6				
	a) 44.0	0)40.0	CJ 42.0	u)40.0				
16	The per cent loss in weight after heating a pure sample of potassium chlorate (mol. wt. =							
	122.5) will be:							
	a) 12.25	b) 24.50	c) 39.18	d)49.0				
				,				
17.	The number of milli equivalent contained in 0.5 litre of $0.2\ N$ solution is:							
	a) 0.1	b) 100	c) 0.01	d) 1.0				
10								
18.	Out of 1.0 g dioxygen, 1.0 g (atomic) oxygen and 1.0 g ozone, the maximum number of molecules are contained in							
	c) 1.0 g of oxygen gas	:11	b) 1.0 g of ozone	nhar of atoms				
	c) 1.0 g of oxygen gas		d) All contain same number of atoms					

- 19. A sample of AIF_3 contains 3.0×10^{24} F ions. The number of formula units of this sample are a) 9.0×10^{24} b) 3.0×10^{24} c) 0.75×10^{24} d) 1.0×10^{24}

- 20. One mole of CO_2 contains
 - a) 3 g atoms of CO₂
 - c) 6.02×10^{23} atoms of 0

- b) 18.1×10^{23} molecules of CO_2
- d) 6.02×10^{23} atoms of C

