



DPP DAILY PRACTICE PROBLEMS									
	CLASS : XIth DATE :			SUBJECT DPP No.	: CHEMISTRY : 3				
Topic :- SOME BASIC CONCEPTS OF CHEMISTRY									
1.	For the reaction, $A + 2B$ a) 5 moles of <i>C</i>	$\rightarrow C, 5 \text{ moles of } A \text{ and } 8$ b) 4 moles of C	moles of <i>B</i> will j c) 8 moles of	produce: C c	d) 13 moles of <i>C</i>				
2.	Which sample contains a) 1 mg of $C_4H_{10}$	the largest number of ator b) 1 mg of N <sub>2</sub>	ns? c) 1 mg of Na	C	d) 1 mL of water				
3.	An aromatic hydrocarbo monosulphonic acid. 0.1 molecular formula of hy a) $C_5H_4$	on with empirical formula 04 g of the acid required 3 drocarbon is b) C <sub>10</sub> H <sub>8</sub>	$C_5H_4$ on treatm 10 mL of $\frac{N}{20}$ NaO c) $C_{15}H_{12}$	ent with con H for comple	centrated $H_2SO_4$ gave a ete neutralisation. The d) $C_{20}H_{16}$				
4.	If isotopic distribution o 12 g of carbon is a) $1.032 \times 10^{22}$	f C-12 and C-14 is 98% an b) 3.01 × 10 <sup>22</sup>	d 2% respective c) 5.88× 10 <sup>23</sup>	ely then the r	number of C-14 atoms in d) 6.023× 10 <sup>23</sup>				
5.	Zinc sulphate contains 2 proportions is true then a) 45.3 g	2.65% of zinc and 43.9% the weight of zinc require b) 4.53 g	of water of crys ed to produce 2( c) 0.453 g	tallization. If ) g of the cry	the law of constant stals will be d) 453 g				
5.	The number of gram mo a) 10	lecules of chlorine in 6.02 b) 100	× 10 <sup>25</sup> hydroge c) 50	en chloride n	nolecules is 1) 5				
7.	The net charge on ferror a) +2	is ion is: b) +3	c) +4		1) +5 RN				
8.	$H_2O_2$ solution used for h the solution. The molecu a) 3.0	nair bleaching is sold as a s Ilar weigh <mark>t of H<sub>2</sub>O<sub>2</sub> is 34.</mark> b) 1.5	solution of appr The molarity of c) 0.15	oximately 5. this solution	0 g H <sub>2</sub> O <sub>2</sub> Per 100 mL of is approximately: 1) 4.0				
9.	$4.6 \times 10^{22}$ atoms of an e a) 290	lement weigh 13.8 g. The b) 180	atomic weight c c) 34.4	of element is	d) 10.4				
10.	The weight of 50% (wt., a) 73 g	/wt.) solution of HCl requi b) 100 g	red to react wit c) 146 g	h 100 g of Ca c	nCO <sub>3</sub> would be: d) 200 g				
11.	An element, <i>X</i> has the for ${}^{200}X$ : 90% ${}^{199}X$ : 8.0% ${}^{202}X$ : 2.0% The weighted average at a) 200 u	llowing isotopic composit tomic mass of the naturall b) 210 u	ion y occurring eler c) 202 u	nent X is clo	sed to 1) 199 u				

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## Smart DPPs

12.	Law of constant composition of conservation of mass c) Multiple proportion	ition is same as the law of	<ul><li>b) Conservation of energy</li><li>d) Definite proportion</li></ul>				
13.	One atom of an element . a) 140	X weight 6.643× 10 <sup>-23</sup> g. b) 150	number of moles of atom : c) 250	in 20 kg is d) 500			
14.	The reaction, $2C + 2O_2 \rightarrow 2CO_2$ is carried out by taking 24 g carbon and 96 g $O_2$ . Which one is limiting reagent?						
	a) C	b) 0 <sub>2</sub>	c) CO <sub>2</sub>	d) None of these			
15.	1000 g aqueous solution a) 10 ppm	of CaCO <sub>3</sub> contains 10 g o b) 100 ppm	f calcium carbonate. Conce c) 1000 ppm	entration of solution is: d) 10000 ppm			
16.	The maximum amount of BaSO <sub>4</sub> precipitated on mixing 20 mL of 0.5 <i>M</i> BaCl <sub>2</sub> with 20 mL o						
	$H_2SO_4$ is: a) 0.25 mole	b) 0.5 mole	c) 1 mole	d) 0.01 mole			
17.	The percentage of an ele a) 45	ment <i>M</i> is <mark>53 in its oxide</mark> b) 9	of molecular formula M <sub>2</sub> O c) 18	<ul> <li>3. Its atomic mass is about</li> <li>d) 27</li> </ul>			
18.	H <sub>3</sub> BO <sub>3</sub> is: a) Monobasic and weak Lewis acid b) Monobasic and weak Bronsted acid c) Monobasic and strong Lewis acid d) Tribasic and weak Bronsted acid						
19.	A sample of peanut oil weighing 1.5763 g is added to 25 mL of 0.4210 $M$ KOH after saponification is complete 8.46 mL of 0.2732 $M$ H <sub>2</sub> SO <sub>4</sub> is needed to neutralise excess KOH. The saponification number of peanut oil is:						
	a) 209.6	b) 108.9	c) 98.9	d) 218.9			
20.	What quantity of ammor neutralize a solution con a) 272 g	nium sulphate is necessary itaining 292 g of <i>HCl</i> ? [ <i>HC</i> b) 403 g	y for the production of $NH_{2}$ $Cl = 36.5, (NH_{4})_{2}SO_{4} = 13$ c) 528 g	$H_3$ gas sufficient to 32, $NH_3 = 17$ ] d) 1056 g			