

IIT – JEE-Class-X-Chemistry

Topic: Basic concepts

			Горю	: Basic concepts					
 Instructions: Immediately fill your particulars by using a Blue/Black Pen Only. There is only one correct answer for each question. Fill the bubble on the OMR to mark your answer. Working should be done only in the space provided. Don't fold or make any stray marks on the Answer Sheet. 									
Nan	ne:	Section:		Roll No	D:	Scho	ol Id_		
1.	Natural sample of cupric carbonate contains 51.35% of copper, 9.74% of 'o' and 38.91% of 'c'. synthetic								
	sample of the compoun (1) 51 35% Cu 10 74%		ofo	(2) 51 250/ Cr	. 07	1494 'a' and 20 ()10/. /	of a	
	(1) 51.35% Cu, 19.74% 'o' and 30.91% of c (3) 9.74% Cu, 38.91% o and 9.74% c (4) 9.74% Cu, 9.74% 'o' and 30.91% of c (4) 9.74% Cu, 9.74% o and 38.91% c								
2.	100 ml of gaseous hydrogen combines with 50 ml of gaseous O_2 to give 100 ml of water vapours. This								
	can be explained on the			- G		2 - 8		I	
	(1) law of definite prop			(2) gay lussac	's lav	N			
	(3) law of multiple prop			(4) avogadro's					
3.	Law of definite proport								
	(1) antoine lavoiser					(4) john Dal	ton		
4.	law of constant compos		old go			. • •			
	(1) endothermic compo					etric compounds			
5.	(3) stoichiometric comp				c con	npounds			
5.	What is incorrect about the law of conservation of mass? (1) a given compound always contains exactly same proportion of elements by weight								
	(2) mass of reactants is equal to the mass of products								
	(3) matter can neither be created nor destroyed								
	(4) it was given by Antoine lavoiser								
6.	After a chemical reaction, the total mass of reactants and products								
	(1) is always increased (2) is always decreased (3) is not changed (4) is always less or more Chemical equation is balanced according to the law of								
7.									
		1) multiple proportion (2) reciprocal proportion 3) conservation of mass (4) Definite proportions							
0	(3) conservation of mas		(0	• /	-			• •	
8.	A sample of calci		`	- /		• •	-	e composition :	
	Ca = 40%; C = 12%; O = 40%						veigh	t of calcium in 4 g	
	of a sample of calcium		ed fr		ce wi				
0	(1) 0.016 g	(2) 0.16 g	~~ 1 ~~4	(3) 1.6 g		(4) 16 g	م ام میں	a of substance C	
9.	n g of substance X reacts with m g of substance Y to form p g of substance R and q g of substance S. This reaction can be represented as, $X+Y=R+S$. The relation which can be established in the amounts of								
	the reactants and the pro-		1 – N		wiii	ien can de estad	iisnee	i in the amounts of	
	(1) $n-m=p-q$	(2) $n+m=p+q$		(3) $n = m$		(4) $p = q$			
10.	A sample of pure carbo				onta		on a	nd 72.73% oxygen	
10.	The data support	n alonido, nicop	0001		onu		on a		
	(1) law of constant com	position	serva	ation of mass					
(3) law of reciprocal proportions (4) law of multiple proportions									
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	6 1234 7	1234	8	1234	9	1234	10	1234	
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