NO:		FINDING N	IASS-SET-1						
1	Sodium hydrogencarbonate undergoes thermal decomposition as shown.								
	$2NaHCO_3 \rightarrow Na_2CO_3 + CO_2 + H_2O$								
	What is the maximum m sodium hydrogencarbonate		ate that can be made from 0.100 moles of						
	A 4.15g B 5.	30g C 10.6	g D 21.2g						
Ms-1	В								
			6,						
2	The equation for the react	ion between calcium ca	bonate and dilute nitric acid is shown.						
	$CaCO_3(s) \ + \ 2HNO_3(aq) \ \rightarrow \ Ca(NO_3)_2(aq) \ + \ CO_2(g) \ + \ H_2O(I)$								
	25 g of calcium carbonate is reacted with an excess of dilute nitric acid.								
	Which mass of calcium nitrate and which volume of carbon dioxide is produced at room temperature and pressure?								
	mass of calcium nitrate/g	volume of carbon dioxide/dm³	3						
	A 29	6							
	B 29	12							
	C 41	6							
	D 41	12							
Ms-2	С								
	~0								
3	Which gas sample has the	ne greatest mass?							
	A 5.0 moles of Cl ₂								
	B 10.0 moles of O ₂								
1	C 15.0 moles of N ₂								
	D 20.0 moles of H ₂								
Ms-3	С								

4	Α	solution o	f sodium	n carb	onate, Na	a ₂ CO	₃, ha	s a co	nce	ntratio	n of	0.03 mol	/dm³.
	Which mass of sodium carbonate is dissolved in 1 dm ³ of this solution?												
	Α	1.06 g		В 3	3.18 g		С	10.6	0 g		D	31.80 g	
Ms-4	В												
_													
5	Wa	ter is form	ed when	48 g (of oxygen	coml	oine	with 6	g of	hydrog	gen.		
	Wh	at mass of	f oxygen	comb	ines with	2 g o	f hyd	lrogen	?				
	A	12 g		В	16 g			С	96	g		D	144 g
Ms-5	В												
6	The equation for the reaction between magnesium and dilute sulfuric acid is shown.												
	$Mg + H_2SO_4 \rightarrow MgSO_4 + H_2$												
	$M_{\rm r}$ of MgSO ₄ is 120												
	Which mass of magnesium sulfate will be formed if 12 g of magnesium are reacted with sulfuric acid?								th sulfuric				
	Α	5 g	В	10g		60	g		D	120 g			
Ms-6	С												
7	The	equation sl	hows the	reactio	n between	magn	esium	n and si	ulfurio	c acid.			
				N	Mg + H ₂ S0	$O_4 \rightarrow$	MgS	O ₄ + F	H_2				
				1)	Mg = 24, H	= 1, S	S = 32	2, O = 1	6)				
		his reaction excess sul			magnesium	sulfa	te wil	l be for	rmed	when 6	3g of	[:] magnesiu	m reacts
	Α	8	В	24	С	30			D	60			
Ms-7	С												

8	Carbon monoxide burns in oxygen to produce carbon dioxide.							
		2CO(g)	$O_2(g) \rightarrow 2CC$	0 ₂ (g)				
	Which mass of carbon dioxide is produced from 14 g of carbon monoxide?							
	A 22 g	B 28 g	C 44 g	D 88 g				
Ms-8	А							
				Go:				
9	The relative formula mass, M_r , of copper(II) sulfate, CuSO ₄ , is 160. Which mass of sulfur is present in 160 g of copper(II) sulfate?							
	A 16g	B 32g	C 64 g	D	128g			
Ms-9	A 16 g	B 32 g	C 64 g	D	128g			
Ms-9		B 32g	C 64 g	D	128g			
Ms-9					128g			
	В	nate undergoes therm			128g			
	В	nate undergoes therm $2NaHCO_3 \rightarrow Na_2$ mass of sodium ca	al decomposition as s CO ₃ + CO ₂ + H ₂ O	hown.				
	B Sodium hydrogencarbor What is the maximum sodium hydrogencarbon	nate undergoes therm 2NaHCO₃ → Na₂ mass of sodium canate?	al decomposition as s CO ₃ + CO ₂ + H ₂ O	hown. e made from 0.100				
	B Sodium hydrogencarbor What is the maximum sodium hydrogencarbon	nate undergoes therm 2NaHCO₃ → Na₂ mass of sodium canate?	al decomposition as s $CO_3 + CO_2 + H_2O$ arbonate that can be	hown. e made from 0.100				