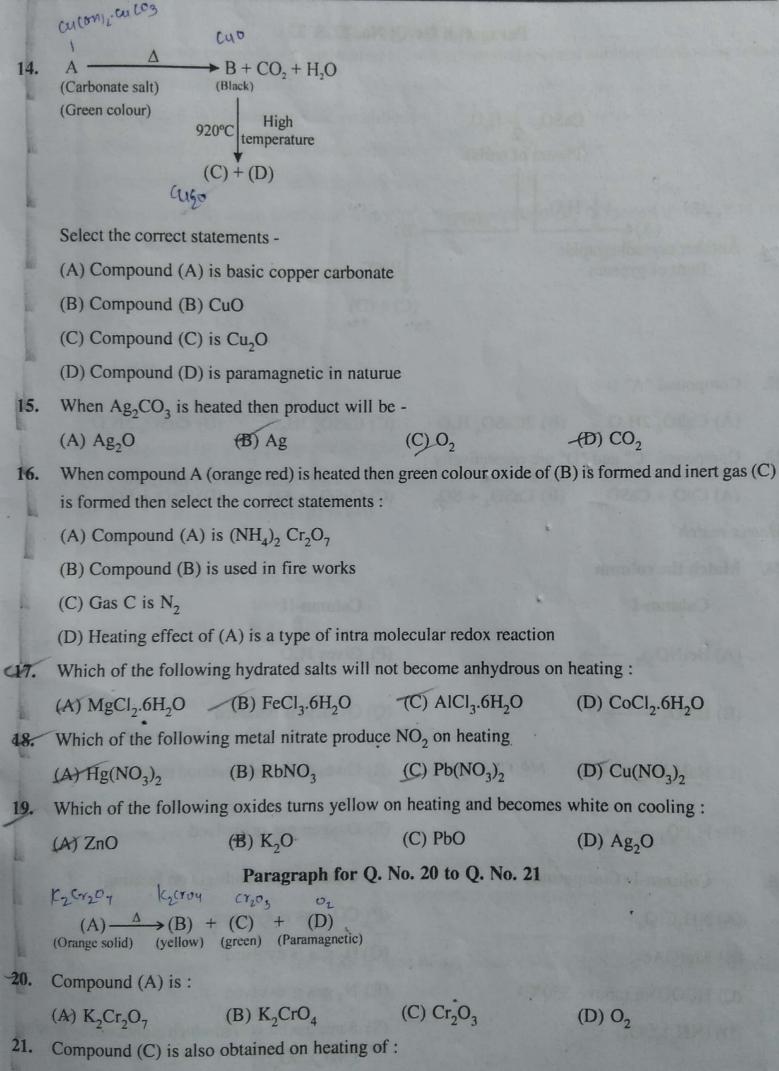
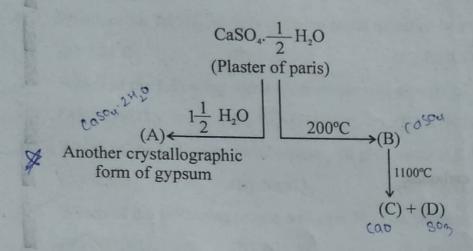
Single correct						
_	4.	Which of the following does not give metal oxide on heating				
				(C) Rb <sub>2</sub> CO <sub>3</sub>	-(D) All of these	
_	2 Which of the following metal bicarbonate will give metal oxide and CO <sub>2</sub> on heating				CO <sub>2</sub> on heating	
	4	(A) NaHCO <sub>3</sub>		(C) KHCO <sub>3</sub>	(D) $Rb_2CO_3$	
Which of the following metal nitrate will give metal and oxygen on heating:					neating:	
	-	(A) KNO <sub>3</sub>	(B) NaNO <sub>3</sub>	(C) AgNO <sub>3</sub>	(D) RbNO <sub>3</sub>	
1	Which of the following nitrate will give N <sub>2</sub> O on heating:					
	4	(A) NH <sub>4</sub> NO <sub>3</sub>	(B) NH <sub>4</sub> NO <sub>2</sub>	(C) NaNO <sub>3</sub>	(D) AgNO <sub>3</sub>	
	5.	5. Which of the following ammonium salt will not give acid on heating:				
	1	(A) $(NH_4)_2HPO_4$	(B) (NH <sub>4</sub> ) <sub>2</sub> MoO <sub>4</sub>	(C) (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	(D) NH <sub>4</sub> Cl	
	6	Which of the following halide will not give halogen gas on heating:				
		(A) PbCl <sub>4</sub>	(B) PbBr <sub>4</sub>	(C) Hg <sub>2</sub> Cl <sub>2</sub>	(D) All of these	
7. Select the correct statements				SBG S	IUUY	
		(A) Hydrated Co <sup>+2</sup> salt is pink (B) Anhydrous Co <sup>+2</sup> salt is of blue colour				
	-	(C) Hybridisation of C	CoCl <sub>2</sub> ,6H <sub>2</sub> O is sp <sup>3</sup> d <sup>2</sup>	(D) All of these		
	8.	8. Which of the following metal sulphate will give SO <sub>2</sub> and SO <sub>3</sub> both gaseous product on he				
		(A) CuSO <sub>4</sub>	(B) FeSO <sub>4</sub>	(C) $\operatorname{Fe_2(SO_4)_3}$	(D) CaSO <sub>4</sub>	
	9.	9. Which of the following compound is called dead burnt plaster:				
	No.	1	(D) G GG AVI G	302+01+0		
	-	(A) $CaSO_4 \cdot \frac{1}{2}H_2O$	(B) CaSO <sub>4</sub> .2H <sub>2</sub> O	(C) CaSO <sub>4</sub> (anhy.)	(D) None of these	
10. When NaH <sub>2</sub> PO <sub>4</sub> is heated then which of the following compound is formed:					formed:	
	1	(A) Na <sub>4</sub> P <sub>2</sub> O <sub>7</sub>	(B) Na <sub>3</sub> PO <sub>4</sub>	(C) HPO <sub>3</sub>	(D) NaPO <sub>3</sub>	
	11.	When KMnO <sub>4</sub> is heat	ed then which of the fo	llowing compound is f		
	12		$_{2}$ (B) $K_{2}MnO_{4} + MnO$		(D) No change	
	12.					
	1 the	(A) Cr <sub>2</sub> O <sub>3</sub> , O <sub>2</sub>	(B) CrO <sub>2</sub> , O <sub>2</sub>	(C) $Cr_2O_7^{-2}$ , $O_2$	(D) None of these	
More than one may be correct						
	13. Which of the following metal carbonate will give of metal and oxyen on heating-					
	W. Committee	(A) Ag <sub>2</sub> CO <sub>3</sub>	(B) HgCO <sub>3</sub>	(C) (NH <sub>4</sub> ) <sub>2</sub> CO <sub>3</sub>	(D) PbCO	



(A)  $(NH_4)_2Cr_2O_7$  (B)  $NH_4ClO_4$  (C)  $NH_4NO_3$  (D) None of these



- 22. Compound "A" is:
  - (A) CaSO<sub>4</sub>.2H<sub>2</sub>O
- (B) 2CaSO<sub>4</sub>.H<sub>2</sub>O
- (C) CaSO<sub>4</sub>.3H<sub>2</sub>O
- (D) CaSO<sub>4</sub>.5H<sub>2</sub>O

- Compound "C" and "D" are respectivelly: 23.
  - (A)  $CaO + CaSO_4$  (B)  $CaSO_4 + SO_2$
- (C)  $CaSO_4 + SO_3$  (D)  $CaO + SO_3$

### Matrix match

#### 24. Match the column

### Column-I

- (A)  $Be(NO_3)_2 \xrightarrow{\Delta}$
- (B)  $HNO_2 \xrightarrow{\Delta}$
- (C) NaH<sub>2</sub>PO<sub>4</sub>  $\xrightarrow{\Delta}$ Na Pog + 420
- (D)  $H_3PO_3 \xrightarrow{\Delta}$

# Column-I (Compound)

- (A) NH<sub>4</sub>ClO<sub>4</sub>
- (B) Mg(OAc)<sub>2</sub>
- (C) HCOONa (above 350°C)
- (D)  $(NH_4)_2CO_3$

#### Column-II

- (P) Gives H<sub>2</sub>O
- (Q) Oxyacid is obtained
- (R) Gives disproportionation reaction
- (S) Oxygen gas is evolved

# Column-II (Products on heating)

- (P) CO<sub>2</sub> gas is evolved
- (Q) H<sub>2</sub> gas is evolved
- (R) N<sub>2</sub> gas is evolved
- (S) Same gas is evolved which is obtained by heating (NH<sub>4</sub>)2SO<sub>4</sub>
- (T) Intra molecular redox reaction

## Integer

- When calamine is heated then a product (A) is formed then find the total number of following options 26. are correct for compound (A) white Cold Yellow
  - (i) Compound (A) is white in cold conditions
  - (ii) Compound (A) is yellow in hot conditions
  - (iii) Compound (A) is called phillosopher's wool
  - (iv) Compound (A) when combined with CoO, then compound (B) is formed & colour of new compound (B) is green
  - (v) Compound (B) is called Rinmann's green



28.

$$NaNO_3 \xrightarrow{500^{\circ}C} (A) + (B)$$

$$Nq No_2 + \frac{1}{2}C_2$$

(A) 
$$\xrightarrow{800^{\circ}\text{C}}$$
 (C) + (D) + (E)  
N<sub>0</sub>20 N<sub>2</sub> 0<sub>2</sub>

Find the number of correct statements

- (I) Compound (B) is paramagnetic in nature
- « (2) Compound (B) when undergoes dimerisation then dimer product is diamagnetic in nature
  - (3) Bond order of compound (B) is two
  - (4) D is N<sub>2</sub> gas
  - (5) Compound B and E are same gas

$$(A) \xrightarrow{\Delta} (B) + (C) + (D)$$
(dark purple (green) (black)
almost black)

Find the number of correct statements

- (1) Compound B is K<sub>2</sub>MnO<sub>4</sub>
- (2) Compound C is MnO2
- (3) Compound D is O2
- (4) Compound B is paramagnetic in nature
- x(5) Compound D has two unpaired electron in bonding molecular orbital
- Total number of compounds undergoes dispropornation redox reaction on heating 29.

On strong heating of H<sub>3</sub>PO<sub>4</sub> and H<sub>3</sub>BO<sub>3</sub>, sum of oxidation number of P & B in the final product 30. obtained is B20, +H20