and diluted HNO ₃ in excess? (1) K ₂ SO ₃ (2) K ₂ CrO ₄ (3) NH ₄ Br (5) None of these give a precipitate. (1) C ₆ H ₁₂ (2) benzene (3) H ₂ (3) H ₂ (3) H ₂ (3) H ₂ (4) Kr (2) benzene (3) H ₂ (3) H ₂ (4) Kr (5) None of these react with Potassium (K)	QUESTIONS ON IN	ORGANIC CHI	EMISTRY	
<form> 9. Which of the following substances give CO; as the only gaseous product when heated? (1) (NG, (1) (NH, 1), CO; 9. May CO; 10HO (1) KHCO; 9. More of the following compounds gives NO; when heated? (1) KHO; (1) NO (2) P.O; (1) KHO; 9. More of the following compounds gives NO; when heated? (1) KHO; (1) MO (2) HJO; (1) HHO; (2) HJO; (3) HJO; (4) HPO; (3) KIKO; (3) KHO; (4) HPO; (4) HJPO; (2) HJO; (3) HJO; (4) HJBr (2) KI (3) Dro & D</form>	Nitrogen change?			
 (1) ZnCO, (2) AgCO, (3) KHCO, (3) KHAPCO, (4) NacCO, 10H₂O (5) KHCO, (3) KHCO, (3) NaCO, (2) P₂O₃ (3) N₂O₃ (4) Br₂O (5) Cl₂O 4. Which of the following compounds gives NO₂ when heated? (1) N₂O (2) P₂O₃ (2) HNO₃ (3) NaNO₃ (4) NH₂NO₃ (5) (NH₄)₂Cr₂O³ 5. P₄O₄ reacts with water to produce, (1) H₂O (2) (H₁PO₃ (3) H₃PO₂ (4) HPO₃ (6) (NH₄)₂Cr₂O³ 5. P₄O₄ reacts with water to produce, (1) H₂O (2) (H₁PO₃ (3) H₃PO₂ (4) HPO₃ (5) Equimolar mixture of H₃PO₄ and H₂PO₃ (3) H₃PO₂ (4) HPO₃ (4) H₂O (4) (1) HBr (2) KI (3) Br₂ dissolved in toluene (4) I₂ dissolved in chloroform (5) None of these can be used 7. Out of the following, in which does Chlorine act as a bleaching agent? (1) dry air (2) moisture (3) sunlight (4) pure oxygen (5) dry ether 8. The main reason to use Hydrogen gas as a fuel is, (1) Hydrogen gas is light. (2) Hydrogen gas is light. (3) Hydrogen gas can be stored easily as it can be compressed to a great extent. (4) Nuchto of the following gives a precipitate with a solution which contains Ba(NO₃)₂, H₃C and diluted HNO₃ (5) (2) (X₂CO₃ (3) NH₄Br (4) (NH₄)₂CO₃ (5) None of these give a precipitate. (4) Nuchto of the following reacts with Potassium (K)? (1) K₂SO₃ (2) Ex₂CO₄ (3) H₂ (3) None of these react with Potassium (K) 	(1) + 5 to + 2 $(2) + 5 to$	o +3 (3) +3 to +.	(4) +3 10 -4	(3) +3 (0 +4
(1) N ₂ O ₅ (2) P ₂ O ₅ (3) N ₂ O ₅ (4) H ₂ O ₅ (3) N ₃ O ₅ 4. Which of the following compounds gives NO ₂ when heated? (1) N ₅ O (2) H ₁ NO ₃ (3) H ₃ O ₂ (4) H ₂ O ₃ (4) NH ₄ NO ₃ (5) (NH ₄) ₂ Cr ₂ O ₇ 5. P ₂ O ₄ reacts with water to produce, (1) H ₂ PO ₄ (2) H ₂ PO ₃ (3) H ₃ PO ₂ (4) H ₂ O ₃ (5) Equimolar mixture of H ₂ PO ₄ and H ₂ PO ₃ . (6) Which of the following can be used to differentiate between KBr and H1? (1) HBr (2) KI (3) Br ₂ dissolved in toluene (4) I ₂ dissolved in chloroform (5) None of these can be used 7. Out of the following, in which does Chlorine act as a bleaching agent? (1) dry air (2) moisture (3) sunlight (4) pure oxygen (5) dry ether 8. The main reason to use Hydrogen gas as a fuel is, (1) Hydrogen gas is light. (2) Heat of combustion of Hydrogen gas as a fuel is, (3) Hydrogen gas is efficiently adsorbed by some metals. (4) Combustion of Hydrogen gas doesn't pollute the environment. (5) Hydrogen gas can be stored easily as it can be compressed to a great extent. (4) Which of the following gives a precipitate with a solution which contains Ba(NO ₃) ₂ , H ₃ O (4) (NH ₄) ₂ CO ₃ (5) None of these give a precipitate. (4) Which of the following reacts with Potassium (K)? (1) C ₄ H ₁₂ (2) benzene (3) H ₂ (4) Kr (5) None of these react with Potassium (K).	(1) ZnCO ₃	(2) Ag ₂ CO	3	t when heated? (3) (NH ₄) ₂ CO ₃
(1) N ₂ O ₅ (2) P ₂ O ₅ (3) N ₂ O ₅ (4) H ₂ O ₅ (4) H ₁ O ₇ (5) Order 4. Which of the following compounds gives NO ₂ when heated? (1) N ₂ O (2) H ₁ NO ₃ (3) H ₁ O ₂ (4) H ₂ O ₃ (4) NH ₁ NO ₃ (5) (NH ₄) ₂ Cr ₂ O ₇ 5. P ₂ O ₄ reacts with water to produce, (1) H ₂ PO ₄ (2) H ₂ PO ₃ (3) H ₃ PO ₂ (4) H ₂ O ₃ (5) Equimolar mixture of H ₂ PO ₄ and H ₂ PO ₃ . (6) Which of the following can be used to differentiate between KBr and H1? (1) HBr (2) KI (3) Br ₂ dissolved in toluene (4) I ₂ dissolved in chloroform (5) None of these can be used 7. Out of the following, in which does Chlorine act as a bleaching agent? (1) dry air (2) moisture (3) sunlight (4) pure oxygen (5) dry ether 8. The main reason to use Hydrogen gas as a fuel is, (1) Hydrogen gas is light. (2) Heat of combustion of Hydrogen gas as a fuel is, (3) Hydrogen gas is efficiently adsorbed by some metals. (4) Combustion of Hydrogen gas doesn't pollute the environment. (5) Hydrogen gas can be stored easily as it can be compressed to a great extent. (9) Which of the following gives a precipitate with a solution which contains Ba(NO ₃) ₂ , H ₃ O and diluted HNO ₃ in excess? (1) K ₂ SO ₃ (2) K ₂ CrO ₄ (3) NH ₂ Br (4) (NH ₄) ₂ CO ₃ (5) None of these give a precipitate. (9) Which of the following reacts with Potassium (K)? (1) CdH ₁₂ (2) benzene (3) H ₂ (4) Kr (5) None of these react with Potassium (K)	2 Which compound is the mos	st acidic in an aqueous	s solution?	
 (1) N₂O (2) HNO₃ (3) HNO₃ (4) NH₄NO₅ (5) (NH₄)₂Cr₂O₇ (1) H₂PO₄ (2) H₂PO₃ (3) H₄PO₂ (4) HPO₅ (3) H₄PO₂ (4) HPO₅ (5) Equimolar mixture of H₄PO₄ and H₄PO₅. (6) Which of the following can be used to differentiate between KBr and HI? (1) HBr (2) KI (3) Br₂ dissolved in tolucene (4) I₅ dissolved in chloroform (5) None of these can be used (1) dry air (2) moisture (3) sunlight (4) pure oxygen (5) dry ether (6) Hydrogen gas is light. (7) Hydrogen gas is light. (9) Hydrogen gas is efficiently adsorbed by some metals. (9) Hydrogen gas can be stored easily as it can be compressed to a great extent. (9) Hydrogen gas can be stored easily as it can be compressed to a great extent. (9) Which of the following reacts with Potassium (K)? (1) C₄H₁₂ (2) benzene (3) H₄Br (4) Nne of these react with Potassium (K)? (3) Nne of these react with Potassium (K) 	(1) N_2O_5 (2) P_2O_5	₅ (3) N ₂ O ₃	(4) B120	(5) Cl ₂ O
 (1) N₂O (2) HNO₃ (3) HNO₃ (4) NH₄NO₅ (5) (NH₄)₂Cr₂O₇ (1) H₃PO₄ (2) H₄PO₃ (3) H₄PO₂ (4) HPO₅ (3) H₄PO₂ (4) HPO₅ (5) H₄PO₄ (6) H₄PO₄ (7) H₄PO₄ (7) H₄PO₄ (8) H₅PO₄ (9) H₇PO₄ and H₄PO₅ (9) H₇PO₄ and H₄PO₅ (1) HBr (2) K1 (3) H₇PO₂ (4) HPO₅ (4) HPO₅ (5) H₄PO₂ (6) H₇PO₄ (7) HBr (7) K1 (7) Constant (8) None of these can be used (9) Got of the following, in which does Chlorine act as a bleaching agent? (1) dry air (2) moisture (3) sunlight (4) pure oxygen (5) dry ether (6) Hydrogen gas is light. (7) Hydrogen gas is light. (8) Hydrogen gas is light. (9) Hydrogen gas is fight. (9) Hydrogen gas can be stored easily as it can be compressed to a great extent. (9) Hydrogen gas can be stored easily as it can be compressed to a great extent. (9) Hydrogen gas can be stored easily as it can be compressed to a great extent. (9) Hydrogen gas can be stored easily as it can be compressed to a great extent. (9) Hydrogen gas can be stored easily as it can be compressed to a great extent. (9) K₅SO₅ (1) K₅SO₅ (2) K₂CrO₄ (3) NH₄Br (4) NH₄)₂CO₅ (5) None of these give a precipitate. (6) Nine of the following reacts with Potassium (K)? (1) C₄H₁₂ (2) benzenc (3) H₄ (4) Kr (5) None of these react with Potassium (K). 	4 Which of the following com	pounds gives NO2 wh	nen heated?	(2)NaNO-
 (a) Harvey (b) Reacts with water to produce, (a) H₃PO₃ (b) H₃PO₃ (c) HPO₃ (c) H₄PO₄ (c) H₃PO₃ (c) H₃PO₂ (c) HPO₃ (c) Equimolar mixture of H₃PO₄ and H₃PO₃ (c) Equimolar mixture of H₃PO₄ (c) Equimolar mixture of H₃PO₄ (c) Equimolar mixture (c) Equimo		(2) HNO ₃		(S)INAINO3
 (1) H₃PO₄ (2) H₃PO₃ (3) H₃PO₅ (4) Metric (3) Equimolar mixture of H₃PO₄ and H₃PO₃. (4) Which of the following can be used to differentiate between KBr and HI? (1) HBr (2) KI (3) Br₂ dissolved in toluence (4) I₂ dissolved in chloroform (5) None of these can be used (1) dry air (2) moisture (3) sunlight (4) pure oxygen (5) dry ether (2) Heat of combustion of Hydrogen gas as a fuel is. (3) Hydrogen gas is light. (3) Hydrogen gas is efficiently adsorbed by sôme metals. (4) Combustion of Hydrogen gas doesn't pollute the environment. (5) Hydrogen gas can be stored easily as it can be compressed to a great extent. (4) Which of the following gives a precipitate with a solution which contains Ba(NO₃)₂, H₃Co (3) NH₄Br (4) (NH₄)₂CO₃ (5) None of these give a precipitate. (4) Kr (3) None of these react with Polassium (K)? (1) C₄H₁₂ (2) benzene (3) H₂ (3) None of these react with Polassium (K) 	(4) NH ₄ NO ₃	(5) (NH ₄) ₂	Cr ₂ O ₇	
 (1) HigPQ, (2) HigPQ, and H;PQ; (3) Equimolar mixture of H;PQ, and H;PQ; (4) Equimolar mixture of H;PQ, and H;PQ; (5) Ku (2) Br₂ dissolved in tolucate (2) Kl (2) Br₂ dissolved in tolucate (4) Equisolved in chloroform (5) None of these can be used (6) Li dissolved in chloroform (6) None of these can be used (7) Out of the following, in which does Chlorine act as a bleaching agent? (1) dry air (2) moisture (3) sunlight (4) pure oxygen (5) dry other (1) Hydrogen gas is light. (2) Heat of combustion of Hydrogen gas as a fuel is, (1) Hydrogen gas is efficiently adsorbed by some metals. (3) Hydrogen gas is efficiently adsorbed by some metals. (4) Combustion of Hydrogen gas doesn't pollute the environment. (5) Hydrogen gas can be stored easily as it can be compressed to a great extent. (9) Which of the following gives a precipitate with a solution which contains Ba(NO₃)₂, H₃C and diluted HNO₃in excess? (1) K₂SO₃ (2) K₂CrO₄ (3) NH₄Br (4) (NH₄)₂CO₃ (5) None of these give a precipitate. 		oduce,	(3) H ₃ PO ₂	(4) HPO3
 6. Which of the following can be used to differentiate between KBr and H!? (1) HBr (2) KI (3) Br₂ dissolved in tolucne (4) to dissolved in chloroform (5) None of these can be used 6. Out of the following, in which does Chlorine act as a bleaching agent? (1) dry air (2) moisture (3) sunlight (4) pure oxygen (5) dry other 7. The main reason to use Hydrogen gas as a fuel is, (1) Hydrogen gas is light. (2) Hydrogen gas is efficiently adsorbed by some metals. (3) Ender of combustion of Hydrogen gas doesn't pollute the environment. (4) Hydrogen gas can be stored easily as it can be compressed to a great extent. 9. Which of the following gives a precipitate with a solution which contains Ba(NO₃)₂, H₄C and diluted HNO₃ in excess? (1) K₂SO₃ (2) K₂CrO₄ (3) NH₄Br (4) (NH₄)₂CO₃ (3) None of these give a precipitate. 10. Which of the following reacts with Potassium (K)? (1) C₆H₁₂ (2) benzene (3) H₂ (4) Kr (5) None of these react with Potassium (K)? 				
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 (4) I₂ dissolved in chloroform (5) None of these can be used 7. Out of the following, in which does Chlorine act as a bleaching agent? (1) dry air (2) moisture (3) sunlight (4) pure oxygen (5) dry ether 8. The main reason to use Hydrogen gas as a fuel is, (1) Hydrogen gas is light. (2) Heat of combustion of Hydrogen gas is high. (3) Hydrogen gas is efficiently adsorbed by some metals. (4) Combustion of Hydrogen gas doesn't pollute the environment. (5) Hydrogen gas can be stored easily as it can be compressed to a great extent. 9. Which of the following gives a precipitate with a solution which contains Ba(NO₃)₂, H₃C and diluted HNO₃ in excess? (1) K₂SO₃ (2) K₂CrO₄ (3) NH₄Br (4) (NH₄)₂CO₃ (5) None of these give a precipitate. 		(2) KI	(3) 512 -	lissolved in toluene
 9. Out of the following, in which does Chlorine act as a bleaching agent? (1) dry air (2) moisture (3) sunlight (4) pure oxygen (5) dry ether 9. The main reason to use Hydrogen gas as a fuel is, (1) Hydrogen gas is light. (2) Heat of combustion of Hydrogen gas is high. (3) Hydrogen gas is efficiently adsorbed by some metals. (4) Combustion of Hydrogen gas doesn't pollute the environment. (5) Hydrogen gas can be stored easily as it can be compressed to a great extent. (6) Which of the following gives a precipitate with a solution which contains Ba(NO₃)₂, Hot and diluted HNO₃ excess? (1) K₂SO₃ (2) K₂CrO₄ (3) NH₄Br (4) (NH₄)₂CO₃ (5) None of these give a precipitate. (4) Kr (2) benzene (3) H₄ (5) None of these react with Potassium (K)? 	(4) Is dissolved in chlorofor	rm (5) None of	these can be used	
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 (1) Hydrogen gas is light. (2) Heat of combustion of Hydrogen gas is high. (3) Hydrogen gas is efficiently adsorbed by some metals. (4) Combustion of Hydrogen gas doesn't pollute the environment. (5) Hydrogen gas can be stored easily as it can be compressed to a great extent. (6) Hydrogen gas can be stored easily as it can be compressed to a great extent. (7) Hydrogen gas can be stored easily as it can be compressed to a great extent. (8) Which of the following gives a precipitate with a solution which contains Ba(NO₃)₂, H₂Co and diluted HNO₃ excess? (1) K₂SO₃ (2) K₂CrO₄ (3) NH₄Br (4) (NH₄)₂CO₃ (5) None of these give a precipitate. 10. Which of the following reacts with Potassium (K)? (1) C₆H₁₂ (2) benzene (3) H₂ (4) Kr (5) None of these react with Potassium (K) 	(1) dry air (2) moistur	re (3) sunngni	(4) pure existen	
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 (4) Combustion of Hydrogen gas doesn't pollute the environment. (5) Hydrogen gas can be stored easily as it can be compressed to a great extent. 9. Which of the following gives a precipitate with a solution which contains Ba(NO₃)₂, H₂O and diluted HNO₃in excess? (1) K₂SO₃ (2) K₂CrO₄ (3) NH₄Br (4) (NH₄)₂CO₃ (5) None of these give a precipitate. 10. Which of the following reacts with Potassium (K)? (1) C₆H₁₂ (2) benzene (3) H₂ (4) Kr (5) None of these react with Potassium (K) 	(3) Hydrogen gas is efficien	tly adsorbed by some	metals.	
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 9. Which of the following gives a precipitate with a solution which contains Ba(NO₃)₂, H₂O and diluted HNO₃in excess? (1) K₂SO₃ (2) K₂CrO₄ (3) NH₄Br (4) (NH₄)₂CO₃ 10. Which of the following reacts with Potassium (K)? (1) C₆H₁₂ (2) benzene (3) H₂ (4) Kr (5) None of these react with Potassium (K) 	(5) Hydrogen gas can be sto	ored easily as it can be	e compressed to a grea	at extent.
and diluted HNO3 in excess? (1) K2SO3 (4) (NH4)2CO3(2) K2CrO4 (5) None of these give a precipitate.(3) NH4Br10. Which of the following reacts with Potassium (K)? (1) C6H12 (4) Kr(2) benzene (5) None of these react with Potassium (K)(3) H2				
 (1) K₂SO₃ (2) K₂CrO₄ (3) NH₄Br (4) (NH₄)₂CO₃ (5) None of these give a precipitate. 10. Which of the following reacts with Potassium (K)? (1) C₆H₁₂ (2) benzene (3) H₂ (4) Kr (5) None of these react with Potassium (K) 				
 (4) (NH₄)₂CO₃ (5) None of these give a precipitate. (6) Which of the following reacts with Potassium (K)? (1) C₆H₁₂ (2) benzene (3) H₂ (4) Kr (5) None of these react with Potassium (K) 		(2) K_2CrO_4		
(1) C ₆ H ₁₂ (4) Kr (5) None of these react with Potassium (K) 19		(5) None of t	hese give a precipitat	e.
(1) C ₆ H ₁₂ (4) Kr (5) None of these react with Potassium (K) 19	10. Which of the following rea	cts with Potassium (I	<)?	
(4) Kr (5) None of these react with Potassium (K) 19		(2) benzene		(3) H ₂
		(5) None of t	hese react with Potas	sium (K)
		19		

			Jeewaka C. Premaraja
NORGANIC CHEMISTRY REVISION		- 01.0	
(1) $K_1(aq)$ (4) CO ₂ dissolved in water. (5) NO	D_2 dissolved in v	vater.	(3) Na ₂ C ₂ O ₄ (aq)
(4) CO2 dissorted in	the tod by Ha	s in acidic med	ium?
 2. Which of the following cations is not pro (1) Pb²⁺ (2) Sn²⁺ 	() Sn ⁴⁺	(4) Bi ³⁺	(5) Zn ²⁺
		(4) Mn ₂ O ₇	(5) B ₂ O ₃
$(1) POU_2$ (-)			
15. What are the products of the reaction b (1) $CO_2 + NO + H_2O$ (2) (2) (4) $CO + NO_2 + H_2O$ (5) (2)	etween Carbon a $CO_2 + NO_2 + H_2$ $CO + NO + NO_2$	and hot conc. H O (3' $_2 + H_2O$	$NO_3?$ $CO_2 + N_2O + H_2O$
16. Which of the following doesn't react w (1) Al_2O_3 (2) P_2O_3	rith NaOH? (3) Cl ₂ O	(4) Cu	(5) Sn
(1) $H_{2}SO_{4} + HO_{2} = H_{4}$ (4) $SO_{2} + NO + H_{2}O$ (5) 18. $Cl_{2}O_{7}$ reacts with water to produce, (1) HClO ₃ and HClO ₄ (2) (5)	$H_2SO_4 + H_2S +$ HClO ₃ and HC	NO ₂ + NO + H	3) SO ₂ + NO ₂ + H ₂ C ₂ O 3) HClO ₃
	HCIO4 and HC		
(4) HCIO ₄	HClO ₄ and HC		
 (4) HCIO4 19. Reagent which can be used to differe (2) 		$Na_2S_2O_3$ and N	a ₂ SO ₃ is, (3) dil. H ₂ SO ₄
 (4) HCIO4 19. Reagent which can be used to differe (1) Br₂(l) (2) 	ntiate between N) I ₂ /CCI4) None of these	$Na_2S_2O_3$ and N	be used
 (4) HCIO4 19. Reagent which can be used to differe (1) Br₂(l) (2) (4) K₂CO₃(aq) 20. To store Potassium, (1) CHCl₃ can be used (2) liquid NH₂ can be used 	ntiate between N) I ₂ /CCI4) None of these m be used.	$Na_2S_2O_3$ and N can be used (2) CCl ₄ can (4) C ₆ H ₆ can	be used be used slved / formed?

 26. When Iodine is reacted with dil. aqueous NaOH, NaI and NaIO₄ are obtained NaIO is obtained NaIO is obtained NaI and NaIO are obtained 27. Which of the following gives out O_{2(g)}when heated? SnO Li₂O NaNO₂ 27. Which of the following statements is true regarding the reactic conc. H₂SO₄ acid? SnO Li₂O NaNO₂ 28. Which of the following statements is true regarding the reactic conc. H₂SO₄ acid? H₂O and H₂S are obtained as products H₂O, H₂S and SO₂ are obtained as products H₂O and SO₂ are obtained as products 10. A < B < C D C D C D C A B C A B C D 11. A < B < C < D C A < B C A < A C A C A C A C A 20. Which of the following statements regarding H₂SO₄ is true?	CHEMISTRY REVISION
24. A imparts golden yellow colour in flame, reacts with Zn or Al for white precipitate with ZnCl ₂ or AlCl ₃ but the precipitate dissolves i (1) KOH (2) NaOH (3) Ca(OH) ₂ (4) Mg(OH 25. H ₂ S and SO ₂ react in an aqueous solution to produce, (1) S ₂ O ₃ ²⁻ (2) S ₄ O ₆ ²⁻ (3) HSO ₇ (4) 26. When lodine is reacted with dil. aqueous NaOH, (1) NaI and NaIO ₄ are obtained (2) NaIO ₃ are (3) NaIO is obtained (2) NaIO are (3) NaIO is obtained (4) NaIO are (5) NaI and NaIO are obtained (2) NaIO is obtained (4) NaIO are (3) NaIO is obtained (4) NaIO are (3) NaI and NaIO are obtained (4) NaIO are (5) NaI and NaIO are obtained (1) SnO (2) Li ₂ O (3) NaNO ₂ (4) Fe 28. Which of the following statements is true regarding the reactic cone. H ₂ SO ₄ acid? (1) H ₂ O and H ₂ S are obtained as products (2) H ₂ O and SO ₂ are obtained as products (3) H ₂ O, H ₂ S and SO ₂ are obtained as products (4) H ₂ O and, SO ₂ Or H ₂ S can be obtained, depending on the cone (5) All the above statements are false 29. Identify the correct order in which the thermal stabilities of increase. K ₂ CO ₃ MgCO ₃ CaCO ₃ BeCO ₃ (4) B <d<(2a) (5)="" c<d<a<b<br="">30. Which of the following statements regarding H₂SO₄ is true? (1) It oxidises Sulphur (2) cone. H₂SO₄ to true? (3) It oxidises Carbon into CO (4) It doesn't reac (5) All the above statements are false 31. Which of the following gives a precipitate with BaCl₂cap solut (1) NH₄I(aq) (2) CO₂ dissolved in water</d<(2a)>	of element M having
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(3) NaIO is obtained (4) NaIO and (5) NaI and NaIO are obtained (4) NaIO and (5) NaI and NaIO are obtained (1) SnO (2) Li ₂ O (3) NaNO ₂ (4) Fe (1) SnO (2) Li ₂ O (3) NaNO ₂ (4) Fe (1) SnO (2) Li ₂ O (3) NaNO ₂ (4) Fe (28. Which of the following statements is true regarding the reacting conc. H ₂ SO ₄ acid? (1) H ₂ O and H ₂ S are obtained as products (2) H ₂ O and SO ₂ are obtained as products (3) H ₂ O, H ₂ S and SO ₂ are obtained as products (4) H ₂ O and, SO ₂ or H ₂ S can be obtained, depending on the concernet (5) All the above statements are false (29. Identify the correct order in which the thermal stabilities of increase. K ₂ CO ₃ MgCO ₃ CaCO ₄ BeCO ₃ A B C D (1) A <b<c<d (2)="" (3)="" d<<br="" d<b<c<a="">(4) B<d<c<a (5)="" c<d<a<b<br="">(3) D< (1) It oxidises Sulphur (2) conc. H₂SO₄ is true? (1) It oxidises Carbon into CO (4) It doesn't reactions (5) All the above statements are false (31. Which of the following gives a precipitate with BaCl₂(aq) solution (1) NH₄l(aq) (2) CO₂ dissolved in water</d<c<a></b<c<d>	
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 28. Which of the following statements is true regarding the reactic conc. H₂SO₄ acid? H₂O and H₂S are obtained as products H₂O and SO₂ are obtained as products H₂O, H₂S and SO₂ are obtained as products H₂O and, SO₂or H₂S can be obtained, depending on the conce All the above statements are false 29. Identify the correct order in which the thermal stabilities of increase. K₂CO₃ MgCO₃ CaCO₃ BeCO₃ A B C D (1) A<b<<<>> (2) D<b<<<>> (3) D<</b<<<></b<<<> (4) B<d<<<>> (5) C<d<a<b< li=""> </d<a<b<></d<<<> 30. Which of the following statements are false 31. Which of the following gives a precipitate with BaCl_{2(mq)} solut (1) NH₄I(mq) (2) CO₂ dissolved in water 	
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increase. $\begin{array}{cccccccccccccccccccccccccccccccccccc$	centration of acid
ABCD(1) A <b<c<d< td="">(2) D<b<c<a< td="">(3) D(4) B<d<c<a< td="">(5) C<d<a<b< td="">(3) D30, Which of the following statements regarding H2SO4 is true?(1) It oxidises Sulphur(2) conc. H2SO4 ref(1) It oxidises Carbon into CO(4) It doesn't react(5) All the above statements are false31. Which of the following gives a precipitate with BaCl2(aq) solut(1) NH4I(aq)(2) CO2 dissolved in water</d<a<b<></d<c<a<></b<c<a<></b<c<d<>	
ABCD(1) A <b<c<d< td="">(2) D<b<c<a< td="">(3) D(4) B<d<c<a< td="">(5) C<d<a<b< td="">(3) D30, Which of the following statements regarding H2SO4 is true?(1) It oxidises Sulphur(2) conc. H2SO4 ref(1) It oxidises Carbon into CO(4) It doesn't react(5) All the above statements are false31. Which of the following gives a precipitate with BaCl2(aq) solut(1) NH4I(aq)(2) CO2 dissolved in water</d<a<b<></d<c<a<></b<c<a<></b<c<d<>	A STAR HADRING ST
 (1) A<b<c<d< li=""> (2) D<b<c<a< li=""> (3) D (4) B<d<c<a< li=""> (5) C<d<a<b< li=""> </d<a<b<></d<c<a<></b<c<a<></b<c<d<> 30. Which of the following statements regarding H ₂ SO ₄ is true? (1) It oxidises Sulphur (2) conc. H₂SO₄ ref (3) It oxidises Carbon into CO (4) It doesn't react (5) All the above statements are false 31. Which of the following gives a precipitate with BaCl _{2(aq)} solution (1) NH ₄ I(aq) (2) CO₂ dissolved in water 	
 (1) A G C C D (4) B C C A (5) C C A B 30. Which of the following statements regarding H ₂ SO ₄ is true? (1) It oxidises Sulphur (2) conc. H₂SO₄ refers to a statements are false 31. Which of the following gives a precipitate with BaCl _{2(aq)} solution (1) NH ₄ I(aq) (2) CO₂ dissolved in water 	
 (1) It oxidises Sulphur (2) conc. H₂SO₄ rd (3) It oxidises Carbon into CO (4) It doesn't reaction (5) All the above statements are false 31. Which of the following gives a precipitate with BaCl_{2(aq)} solution (1) NH₄I(aq) (2) CO₂ dissolved in water 	B <a<c< td=""></a<c<>
(1) $NH_4I(aq)$ (2) CO_2 dissolved in water	eacts with S to produce SC t with Carbon
(1) $NH_4I(aq)$ (2) CO_2 dissolved in water	tion?
1000 000 000 000 000 000 000 000 0000000	(3) (NH ₄) ₂ CrO ₄ (4
	late
21	
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observed in either case. The salt	ith dil.H ₂ SO ₄ and then with conc.H ₂ SO ₄ . No reaction we t contains, $O SO_3^{2^2}$ (3) SO ₄ ²⁻
	None of the above.
33. Which of the following intensifi	ies the colour when added to Bromine water?
(1) $SO_2(aq)$ (2) $HI(aq)$	(3) NH ₃ (aq) (4) H ₂ S(aq) (5) BaO(s)
 Which of the following is the m (1) Reacting the sample of Nitric (2) Diluting the sample of Nitric (3) Reacting a portion of Nitric a 	c acid with PbCO ₃ c acid and reacting with Cu turnings
(5) Reacting a portion of Nitric a	acid with PbSO ₄
35. Reagent that can be used to diff	ferentiate between $Mg(NO_3)_2$ and $Ba(NO_3)_2$ is,
(1) $Na_2CO_3(aq)$	(2) NaHCO ₃ (aq) (3) NH ₃ (aq)
(4) KI _(aq)	(5) None of these compounds can be used
36. Which of the following cannot b	be used to differentiate between KBr and KI?
(1) AgNO ₃ (aq) / dil. HNO ₃	
(4) conc. HNO ₃	(2) $Pb(NO_3)_2(aq)$ (3) conc. $H_2S($ (5) CCl_4
37 Which of the following statemer	
(1) PCl ₃ exists	nts is false regarding Phosphorous? (2) PCl ₅ exists (3) P ₂ O ₂ exist
(4) P_2H_5 exists	(2) PCl_5 exists (5) PO_4 doesn't exist (3) P_2O_3 exist
38. Sulphur reacts with hot conc. Hi	NO ₂ to give
(1) $SO_2 + N_2O + H_2O$	(2) $H_2SO_4 + NO_2 + H_2O$
(3) $SO_2 + H_2SO_4 + N_2O_5 + H_2O$ (5) $SO_2 + NO_2 + N_2O + H_2O$	(4) $H_2SO_4 + N_2O + H_2O$ (4) $H_2SO_4 + N_2O + H_2O$
39. Chlorine reacts with hot conc. K	OH to produce
(1) KCl + KClO + KClO ₄ + H_2 C	(2) KCl + KClO + H_2O
	(4) KCl + KClO ₄ + H_2O
$(3) \text{ KCl} + \text{ KClO}_3 + \text{ H}_2\text{O}$	111111111111111111111111111111111111111
 (3) KCl + KClO₃ + H₂O (5) KClO₃ + KClO₄ + H₂O 40. To show that Sulphur is present 	in iron ores,
 (3) KCl + KClO₃ + H₂O (5) KClO₃ + KClO₄ + H₂O 40. To show that Sulphur is present (1) Sodium Hydroxide solution of the so	can be used
 (3) KCl + KClO₃ + H₂O (5) KClO₃ + KClO₄ + H₂O 40. To show that Sulphur is present (1) Sodium Hydroxide solution of (2) Ammonia solution can be used 	can be used.
 (3) KCl + KClO₃ + H₂O (5) KClO₃ + KClO₄ + H₂O 40. To show that Sulphur is present (1) Sodium Hydroxide solution of (2) Ammonia solution can be used (3) Hydrochloric acid solution can 	can be used. ed. an he used
 (3) KCl + KClO₃ + H₂O (5) KClO₃ + KClO₄ + H₂O 40. To show that Sulphur is present (1) Sodium Hydroxide solution of (2) Ammonia solution can be used 	can be used. ed. an be used.

Jeewaka C. Premaraja INORGANIC CHEMISTRY REVISION 41. Which of the following reacts with aqueous H₂S? (1) HBr(aq) (3) CH₃COOH(aq) (2) HI(aq)(4) SO₂(aq) (5) None of the above reacts with $H_2S(aq)$ 42. Which of the following clearly shows a chemical reaction with water? (1) CsCl (2) RbF (3) $BiCl_3$ (4) $SrCl_2$ (5) BaI_2 43. Which of the following solutions is the most acidic? (1) SO₂ dissolved in water (2) NO₂ dissolved in water (3) SO_2 and NO_2 dissolved in water (4) H_2S dissolved in water (5) Cl₂O dissolved in water 44. Which of the following statements is correct regarding the reaction between molten NH₄Cl and Aluminium metal? (3) NH₃ evolves (2) H₂ evolves (1) Cl₂ evolves (4) H_2 and N_2 evolve (5) H_2 and NH_3 evolve 45. In the reaction between Cu and H₂S₂O₇ in aqueous medium, (1) Oxidation number of Sulphur changes from +8 to +6 (2) Oxidation number of Sulphur changes from +7 to +4 (3) Oxidation number of Sulphur changes from +6 to +4 (4) Oxidation number of Copper changes from 0 to +1 (5) None of the above takes place. 46. The colourless solid A decomposes as follows. A $\xrightarrow{\Delta}$ B_(g) + C_(g). Aqueous solutions of A and B turn blue litmus red and give white precipitate with AgNO3 solution soluble in the aqueous solution of C. C turns red litmus blue. A, B and C are (1) NH₄Cl, HCl, NH₃ (2) NH₄Br, HBr, NH₃ (3) NH₃, NaCl, HCl (4) Both (2) and (3) are correct. (5) All (1), (2) and (3) are correct. 47. Chemical formula of Potassium stannate is, (3) KSnO₂ (2) K₂SnO₃ (1) KSnO₃ (5) None of the above. (4) K₂SnO₂ 48. Which of the following easily releases CO₂ when heated? (3) K_2CO_3 (4) Rb_2CO_3 (5) Cs_2CO_3 (1) Li_2CO_3 (2) Na_2CO_3 49. Which of the following compounds doesn't evolve NO2 when heated? /ww.chemistrysabras.weebly

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 50. Which of the following statement (1) SO₂ reacts with acidified KM (3) SO₂ reacts with conc. HNO₃ (5) SO₂ reacts with aqueous HF 	$\begin{array}{l} \text{AnO}_4 & (2) \text{SO}_2 \\ (4) \text{SO}_2 \end{array}$? reacts with acidified CrO_3 reacts with aqueous H_2S
 51. Which of the following state HBr(aq)and HI(aq)? (1) HClO₄(aq) / CCl₄ can be used (2) HClO₃(aq) / CCl₄ can be used (3) Acidified KMnO₄ / CHCl₃ ca (4) Br₂(aq) / C₆H₆ can be used for (5) None of the above can be used 	l for this I for this an be used for this r this	ng the differentiation betwee
52. What are the most probable pro and hot conc. HNO ₃ ?	ducts that could be forme	d by the reaction between Silve
(1) AgNO ₂ , NO ₂ and H ₂ O (4) AgNO ₃ , NH ₄ NO ₃ and H ₂ O	(2) AgNO ₂ , N_2O_5 and H (5) AgNO ₃ , NO_2 and H	
 53. When NH₃(g) is passed over hea (1) MnN₃ is/formed (4) N₂O is formed 	ted MnO ₂ , (2) N ₂ O ₄ is formed (5) None of the above c	(3) N_2 is formed compounds are formed
54. Which of the following can be u(1) dil. HNO₃(4) conc. Cl₃CCOOH	sed to identify AgBr and (2) conc.HNO ₃ (5) dil. H ₂ SO ₄	AgI chemically? (3) dil. HCl
55. Which is the most volatile one o (1) CH ₄ (2) NH ₃	ut of the following? (3) H ₂ O	(4) HF (5) Ne
 56. Which of the following statemer (1) It reacts with Hydrofluoric ac (3) It reacts with HIO₄ acid (5) It reacts with HMnO₄ acid 	cid (2) It reacts	I ₂ S _(aq) solution? with Iodic acid with H ₃ AsO ₄ acid
 57. Sn metal reacts with a solution o (1) CsSnO₃ and H₂ (3) Cs₂SnO₃ and H₂ (5) Cs₂SnO and O₂ 	f conc. CsOH to produce (2) CsSnO ₂ (4) Cs ₂ SnO	and H ₂
58. NO ₂ and SO ₂ react with water to (1) H_2SO_4 and NO (4) H_2SO_3 and HNO_3	produce, (2) H_2SO_4 and N_2O (5) H_2SO_4 and N_2	(3) H_2SO_3 and H_2SO_4

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Jeowaka C. Premaraja

(3) SO₂(aq)

59. Which of the following gives a precipitate with BaCl₂(aq)?

(1) $NH_4I(aq)$ (2) $NH_3(aq)$

(4) $CO_2(aq)$ (5) $K_2Cr_2O_7(aq)$

60. Which of the following statements regarding the chemistry of Phosphorous is true? (1) There are three O-H bonds in H_3PO_3

- (1) There are two O-H bonds in H₃PO₃
 (2) There are two O-H bonds in H₃PO₃
- (2) There are two O-H bonds in H₃PO₂ (3) There are two O-H bonds in H₃PO₂
- (4) White P does not react with Chlorine
 - (5) White P reacts with water

61. Which of the following doesn't undergo a chemical change with H₂O_{2(aq)}?
(1) NH₄MnO₄ / dil. HCl
(2) NaMnO₄/dil. HNO₃
(3) MnO₂ / dil. H₂SO₄
(4) MnO₂
(5) HI

Consider the following compounds for questions 62, 63 & 64;(A) K2CrO4(B) ZnSO4(C) CuCl2(D) FeCl3(E) NiSO4

- 62. Which of the above is / are likely to give solid sediments with dil. HCl saturated with H₂S?
 (1) Only A (2) A and B (3) Only C (4) A, C and D (5) B and E
- 63. Which of the above are likely to liberate I₂ with KI under some special conditions? (1) A and B (2) A, C and D (3) A and D (4) A and C (5) C, D and E
- 64. Which of the above will oxidise CH₃CHO under certain special conditions? (1) Only A (2) B and D (3) A and C (4) Only C (5) A, B and E
- 65. SrCrO₄ is dissolved in dil. HNO₃ acid. Colour of the solution thus obtained is, (1) purple (2) green (3) yellow (4) orange (5) red

66. Which of the following reactions is false regarding halogens?

(1) $3Cl_2 + 8NH_3 \longrightarrow N_2 + 6NH_4Cl$ (2) $3Cl_2 + 2NH_3 \longrightarrow N_2 + 6HCl$ (3) $I_2 + 2H_2O \longrightarrow H_3O^+ + I^- + HOI$ (4) $Cl_2 + HF \longrightarrow 2HCl + F_2$ (5) $Br_2 + 2HI \longrightarrow 2HBr + I_2$

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- 67. A is a yellow coloured solid, which is soluble in Na₂S₂O₃ solution and forms a complex B which on heating forms C (Black). C gives a white precipitate D with HCl and HNO₃. D dissolves in NH₃ forming E. Identify A,B and E.
 - (1) AgBr, Ag₂S, $[Ag(NH_3)_2]Cl$
 - (2) AgBr, $Na_3[Ag(S_2O_3)_2]$, $[Ag(NH_3)_2]Cl$
 - (3) Ag₂S, [Ag(NH₃)₂]Cl, AgCl
 - (4) Ag₂S, Na₃[Ag(S₂O₃)₂], AgCl
 - (5) None of the above is true.

INORGANIC CHEMISTRY REVISION Jeewaka C. Premaraja 68. Which of the following statements regarding 3 oxi acids of Phosphorous is true? (1) There is only one P-H bond in H₃PO₂ molecule (2) There are three P-H bonds in H₃PO₂ molecule (3) There is only one P-H bond in H₃PO₄molecule (4) There are three O-H bonds in H₃PO₄ molecule (5) There are three O-H bonds in H₃PO₃ molecule 69. Which one of the following will have the least tendency to react with Chlorine? (3) $N_2(g)$ (4) Ga(l) (5) $Fe^{2+}(aq)$ (1) Ag metal (2) P(s)70. Which one of the following statements regarding hot concentrated Sulphuric acid is correct? (1) It reacts with Carbon and gives CO_2 and SO_3 (2) It reacts with Carbon and gives CO₂ and SO₂ (3) It reacts with Copper and gives SO₂ and SO₃ (4) It doesn't react with Copper (5) It doesn't react with Carbon 71. Which of the following statements is incorrect? (1) I_2 can act as an oxidising agent (2) I_2 can act as a reducing agent (3) HI can act as an oxidising agent (4) lodine in HI can be subjected to reduction by NaH (5) Iodine in HOI can be subjected to oxidation 72. A decolourizes acidified KMnO₄ and gives a brown precipitate B with alkaline KMnO₄. Also A liberates I₂ from KI/H⁺ solution and removes black stains from oil paintings. A and B are, (1) H₂O₂, MnO₂ (2) MnO₂, PbSO₄ (3) H₂O₂, MnO₄²⁻ (4) H₂O₂, K₂SO₄ (5) MnO₂, MnSO₄ 73. Assume that a piece of dry rust is provided to you. Which one of the following methods is the most appropriate to show that the above substance is rust? (1) Adding K₃[Fe(CN)₆](aq)to the piece of substance (2) Adding NH₃(aq)to the piece of substance (3) Adding NH₄SCN(aq)to the piece of substance (4) Adding HCl and KSCN to the piece of substance (5) Adding dil. H₂SO₄ to the piece of substance 74. Which of the following statements is true regarding the hydroxides of alkaline earth (1) Basicity increases with the atomic number of the metal (2) Solubility decreases with the atomic number of the metal (3) Basicity increases with the atomic number of the metal initially and then decreases (4) Solubility increases with the atomic number of the metal initially and then decreases (5) None of the above statements are true regarding basicity and solubility ww.chemistrysabras.weebly

- 75. When NH₄Cl(aq) and KOH(aq)are added into a solution of CrI₃(aq),
 - (1) A green precipitate is obtained
 - (4) Brown so
 - (5) Brown precipitate is obtained

(3) Pink solution is obtained

- (2) Blue precipitate is obtained(4) Brown solution is obtained
- 76. You are supplied with an acidic solution containing the cations Fe²⁺ and Ni²⁺. Which of the following statements regarding the demonstration of the presence of Ni²⁺ in this solution is the most appropriate?
 - (1) Passing H₂S gas through the solution and filtering it through a filter paper is a suitable method
 - (2) Passing excess H₂S gas through the solution and filtering it through a filter paper is a suitable method
 - (3) Adding excess (NH₄)₂S_(aq) into the solution and filtering it through a filter paper is a suitable method
 - (4) Adding excess $NH_{3(aq)}$ into the solution and filtering it through a filter paper is a suitable method
 - (5) None of the above methods can be used
- 77. Which one of the following gives CO₂ at the lowest temperature when heated?
 - (1) An aqueous solution saturated with BaCO₃
 - (2) An aqueous solution saturated with MgCO₃
 - (3) $K_2CO_3(aq)$
 - (4) NaHCO₃(aq)
 - (5) Ca(HCO₃)₂(aq)
- 78. Which of the following statements regarding the compound K₄[Fe(CN)₆] is true?
 - (1) Its IUPAC name is Potassium ferrocyanide(II)
 - (2) Its IUPAC name is Potassium ferricyanide(III)
 - (3) Its IUPAC name is Potassium hexacyanoferrate(IV)
 - (4) Its IUPAC name is Potassium hexacyanoferrate(III)
 - (5) None of the above is its IUPAC name.

79. All three ionic solutions A, B and C gave white precipitates with dil. HCl. B gave a black precipitate with NaOH. When NH₃ was added to the precipitate obtained for A, it dissolved. Precipitate obtained for C didn't undergo any reaction with NH₃, while a white precipitate was obtained when dil. H₂SO₄ was added to C. A, B and C respectively are,

- (1) Ag⁺, Hg²⁺, Pb²⁺
- $(3) Ag^+, Hg^{2+}, Pb^{2+}$
- (5) Cd²⁺, Pb²⁺, Hg²⁺

(2) Ag⁺, Pb²⁺, Hg²⁺ (4) Hg²⁺, Ag⁺, Pb²⁺

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0. Consider the following con	ditions of the black precip	oitates obtai	ned with dil. HCl and	
H ₂ S. (a) Insoluble in hot dil.	UNO.			
(b) Dissolves in hot dil.(c) Dissolves in hot dil.	HNO_3 and gives a blue sol HNO_3 and gives a white p			
(a), (b) and (c) respectively a (1) SnS ₂ , CuS, Bi ₂ S ₃			(3) CuS, SnS ₂ , HgS	
(4) HgS, SnS, CuS	(2) HgS, CuS, Bi ₂ S ₃ (5) CuS, Bi ₂ S ₃ , HgS		(3) Cu3, 51152, 1123	
31. A and B gave brown and y precipitates dissolve in National States and Sta				
most probably are, (1) Sn^{2+} and Sn^{4+}	(2) S_{2}^{2+} and C_{4}^{2+}		(3) Sn^{2+} and Cu^{2+}	
(4) Sn^{4+} and Cd^{2+}	(2) Sn^{2+} and Cd^{2+} (5) Cu^{2+} and Sn^{4+}		(3) 311 and Cu	
82. Ions that precipitate when	NH₄Cl, NH₄OH and H₂S	are added	to a solution containin	g
Zn^{2+} , Pb^{2+} , Cu^{2+} and Ni^{2+} are				U.
(1) Only Zn^{2+} and Ni^{2+}		only Zn ²⁺ an		
(3) Only Zn^{2+} , Pb^{2+} and Ni^{2+}		only Pb ²⁺ an	d Cu ²⁺	
(5) All four ions given abov	ve precipitate			
83. When dil. HCl was added was bubbled through,	to a solution containing	Co ²⁺ , Mn ²⁺	, Sb ³⁺ and Cd ²⁺ and H	2S
(1) Mn^{2+} , Sb^{3+} and Cd^{2+} pro-	ecipitate (2) (Co^{2+} and Mr	n ²⁺ do not precipitate	
(3) Only Cd ²⁺ precipitates		None of the	above ions precipitates	3
(5) All the above ions preci	pitate			
 84. A student didn't obtain proximate analysis to iden with the reagents NH₄Cl, N (1) Only Mg²⁺ is present in (2) M²⁺ is present in the second statement in the	tify a mixture of cations. IH_4OH and Na_2HPO_4 . the ion solution (2)	He later ob	otained a white precipi doesn't contain any ior	tate
 (3) Mn²⁺ is present in the s (5) None of the above state 			present in the solution	
85. The ion which gives a lig and also which gives a w is,				
(1) Fe^{3+} (2) Ni	²⁺ (3) Mn ²⁺	(4)	Co^{2+} (5) Fo	e ²⁺
86. Salt solutions A, B, C and	D turned the Bunsen flau	ne of a Pt	wire dipped in dil. HC	1 into
red, crimson, green and vi				
(1) Cs^+ , Sr^{2^+} , Ba^{2^+} , Rb^+ (4) Ca^{2^+} , Ba^{2^+} , Cs^+ , Na^+	(2) Li ⁺ , Sr ²⁺ , Ba ²⁺ ,	K ⁺	(3) K ⁺ , Sr ²⁺ , Ba ²	2+, Li ⁺
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 (3) Ca²⁺ is present in the solutio (5) Components present cannot be 		(4) Ba ²⁺ is prese	resent in the solution ent in the solution
38. Solutions A and B give precip precipitate formed by A is blue	bitates with the r	eagent NH4Cl / M	VH4OH. Colour of the cipitate formed by B is
gelatinous white. A and B mos		colour of the pro-	-Prove
(1) AlCl ₃ and CrCl ₃ (4) FeCl ₃ and FeCl ₂	(2) CrCl ₃ an (5) CrCl ₃ an		(3) AlCl ₃ and FeCl ₂
 89. Composition of Aqua Regia is, (1) HCl : 3HNO₃ (4) 3HCl : HNO₃ 	(2) HCl : 31 (5) None of		(3) 3HCl : H ₂ SO ₄
90. With NH ₄ Cl / NH ₄ OH and 1	Na ₂ HPO ₄ (disodi	um hydrogen pho	osphate), Mg ²⁺ solution
gives, (1) Mg.NH4.PO4 (4) MgHPO4	(2) Mg ₃ (PC (5) Mg(H ₂)		`(3) (NH ₄) ₃ PO ₄
91. An ionic solution of A gives	an orange pre	cipitate with H ⁺ /H	12S, which is soluble in
91. An ionic solution of A give. NaOH. A can be, (1) Bi (2) Cu	(3) Sb ³⁺	(4) Cd ²⁺	(5) Sb
92. A student precipitated Cd ²⁺ analysis. If he thinks that both	as CdS by H_2S h Fe ³⁺ and Fe ²⁺ a	in the presence or re present in the i	of dil. HCl in proximate on solution, to check thei
presence he should, (1) Boil the solution until all	H ₂ S expels, the	n boil again with	2 cm^3 of conc. HNO ₃ an
add NH ₄ Cl / NH ₄ OH. (2) Observe whether a reddis			
is present. (3) Keep in mind that all Fe ² (4) Observe whether a Turn solution, to check the pr obtained with NH ₄ Cl / N	resence of Fe ²⁺ ,	if reddish brow	
	are true and the	procedure is call	in our and o

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93. A light red precipitate was obtained with H_2S by $E_{(aq)}^{n+}$ solution in NH_4Cl/NH_4OH medium. When NaOH is added to this solution, a white precipitate was obtained which readily turned into brown. $E_{(aq)}^{n+}$ can be,

(1) $Mn^{4+}(aq)$ (2) $Mn^{2+}(aq)$ (3) $Ni^{2+}(aq)$ (4) $Fe^{2+}(aq)$ (5) $Fe^{3+}(aq)$

94. A student who was carrying out a proximate analysis, discarded the filtrate after getting the precipitate filtered, which was obtained when dil. HCl_(aq) was added to the cation mixture. If so,

- (1) Cations are not present in the filtrate
- (2) Cations cannot be present in the precipitate as their Cl
- (3) Filtrate is not important in this type of an experiment
- (4) Use of the filtrate is limited after obtaining the precipitate
- (5) None of the above statements can be accepted
- 95. A white compound 'A' which is soluble in hot dil. HCl, gives a white precipitate with NaOH. It's insoluble in excess NaOH. When this precipitate is dissolved forming a suspension in water and H₂S is passed through, a yellow precipitate is obtained. A can be, (1) ZnO (2) HgO (3) CdO (4) SnO₂ (5) As₂O₃
- 96. An inorganic compound X completely dissolves in dil. H₂SO₄ to give a brown coloured gas. The solution obtained by this gives green colour to flame test. X can most probably be,

(1) $BaBr_2$	(2) $Ba(NO_2)_2$	(3) Cu(NO
(4) CuBr ₂	$(5) Cu(NO_2)_2$	

97. An inorganic compound X gave a colourless solution and a gas with a bad odour upon reacting with dil. HCl. This solution gave green colour to flame test and the gas gave a black precipitate with Co(NO₃)₂ solution. Identify X.

(1) CuSO ₃	(2) CuS	(3) BaSO ₃
(4) BaS	(5) BaS_2O_3	

98. An inorganic compound X gave a colourless solution and a colourless gas upon reacting with dil.H₂SO₄. A precipitate was obtained when KOH_(aq)was added in excess to this solution. Identify X.

(1) ZnSO ₃	(2) $Al_2(CO_3)_3$	(3) CuCO ₃
(4) Ni(NO ₂) ₂	(5) MgSO ₃	

99. Compound R is white in colour and is insoluble in water. A coloured gas evolved when R is treated with conc. H₂SO₄. Solution obtained by this gave a colour to the flame test. Identify R.

(1) $BaBr_2$	(2) Bal ₂
(4) $Cu(NO_2)_2$	(5) CuCl

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- 100. A dark coloured gas evolved when an inorganic compound Y is boiled with conc. HNO₃. Solution obtained by this gave a white precipitate with BaCl₂. Identify Y. (1) CuBr (2) Cul (3) AgI (4) PbCO₃ (5) Ag₂CO₃
- 101. An inorganic compound P gave a colourless gas and a colourless solution with dil. HCl. The gas turned acidified K₂CrO₄ green. Solution gave a precipitate with dil. H₂SO₄. Which compound is P?
 (1) Sr(NO)
 (2) Mag O (2) Mag O (2) Colour (2) Colour (2) Colour (2) Mag O (2) Colour (2) Mag O (2) Colour (2)
 - (1) $Sr(NO_2)_2$ (2) MgS_2O_3 (3) SrS (4) $Ba(NO_2)_2$ (5) NH_4HS

102. An inorganic compound X is insoluble in water. X gives an orange solution by dissolving in dil. HNO₃. This solution gives green colour to flame test. The above solution turns green when H₂S is passed through it. Which of the following can X be?
(1) CuCrO₄ (2) PbCrO₄ (3) Ba(MnO₄)₂ (4) BaCrO₄ (5) BaCl₂

103. An inorganic compound A dissolves in water and dil. H₂SO₄ without showing any chemical reaction. A gave green colour to flame test. A gave a dark coloured gas when heated with conc. HNO₃. Which of the following can A be?
(1) BaBr₂ (2) Ba(NO₂)₂ (3) CrI₃ (4) Cu(NO₃)₂ (5) CuBr₂

104. An inorganic compound P gives a gas Q and a solution R when heated with conc. HCl. Q decolorizes a filter paper dipped in acidified KMnO₄. R gives a green precipitate when NH₃(aq) is added. This precipitate turns brown after reacting with atmospheric air. Which of the following can P be?
(1) HgSO₃ (2) Bi₂S₃ (3) CoSO₃ (4) FeS (5) NiS

105. A gas and a light blue solution is obtained when dil. HCl is added to an inorganic compound Q. This gas didn't change the colour of acidified KMnO₄. When excess aqueous NH₃ is added to a portion of light blue solution, a dark blue solution was obtained. No precipitate was obtained when H₂S was passed through another portion of the light blue solution. Q can be,

(1) $CuSO_3$	(2) NiCO ₃	(3) $Ni(NO_2)_2$
(4) NiSO ₃	(5) ⁻ CuCO ₃	

106. An inorganic compound X gives a colourless gas and a coloured solution when reacted with dil. HCl. When this gas is passed through a H₂S_(aq) solution, a sediment is obtained. When excess NH₃(aq) is added to the above coloured solution, a coloured precipitate is obtained. X can be,

(1) $Fe(NO_2)_3$	(2) $Cr_2(SO_3)_3$	$(3) \cdot Cr_2(CO_3)_3$
(4) CuSO ₃	$(5) Cu(NO_2)_2$	

107. NH₄OH and NH₄SCN are added to an aqueous solution of an inorganic compound Z and kept aside for a few minutes. Then this reactant mixture is acidified with dil. H₂SO₄ and a red coloured solution is resulted. Z can most probably be,

(1) N1SO₄

(2) $Cr_2(SO_4)_3$ (5) FeSO₄

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(3) Mn(NO₃)₂

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108. When KSCN solid was added to a portion of an aqueous solution containing cations of a certain element, a red colour was not obtained. NH₃(aq) was added to another portion of the original solution and kept aside for a short time. The product obtained was made acidic by adding dil. HCl. When KSCN solid was added to this acidic solution, a red colour was obtained. The cation under consideration could be,

(1) Cr^{3+} (2) Mn^{2+} (3) Cu^{2+} (4) Fe^{2+} (5) Fe^{3+}

109. An inorganic compound D, when treated with dil. H_2SO_4 gave a brown gas and a coloured solution. When excess $NH_3(aq)$ was added to a portion of this solution, a blue solution was obtained. When H_2S gas was passed through the initial coloured solution, a black precipitate was not obtained. Which one of the following is most likely to be D? (1) Cu(NO₃)₂ (2) Cu(NO₂)₂ (3) Cd(NO₂)₂

(1) Cu(1103)2	(-) (
(4) Ni(NO ₃) ₂	(5) Ni(NO ₂

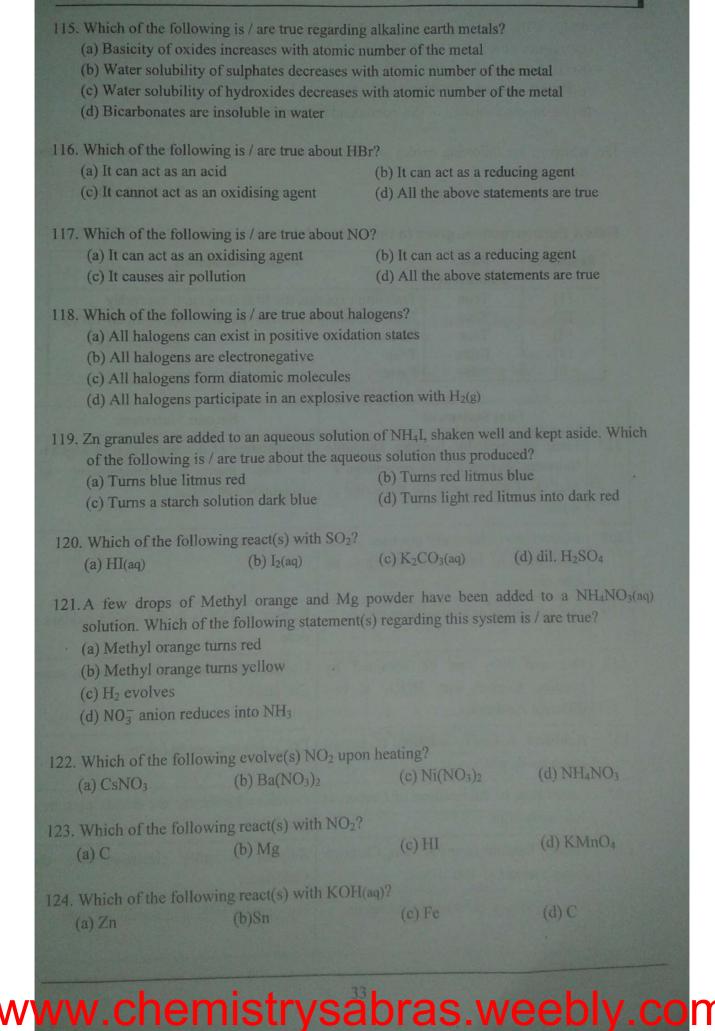
Follow the instructions given in the table below to answer questions 110 - 126.

		2	4	5
1 Only (a) and (b) are correct	2 Only (b) and (c) are correct	Only (c) and (d) are correct	Only (a) and (d) are correct	Any other combination of answers is correct

- 110. Which of the following give(s) a precipitate with a AgNO3(aq) solution?(a) Ba(NO3)2(b) NaOH(c) Na2SO3(d) Na2SO4
- 111. Which of the following oxide(s) is / are amphoteric? (a) N_2O (b) Na_2O (c) Al_2O_3 (d) ZnO
- 112. Which of the following is / are true regarding Group VI elements?
 - (a) Metallic character increases down the group
 - (b) Acidity of hydrides increases down the group
 - (c) All are non metals
 - (d) Boiling point of hydrides increases down the group
- 113. Which of the following statement(s) is/are true?
 - (a) Sometimes alkali metals form divalent compounds
 - (b) Sometimes alkaline earth metals form monovalent compounds
 - (c) Chlorides of some alkali metals are not soluble in water
 - (d) Oxides of some alkaline earth metals are not soluble in water
- 114. Zn dust has been added to (NH₄)₂SO_{4(aq)} solution and then heated. Which of the following statement(s) is / are true regarding this system?
 - (a) N₂ can evolve
 - (c) H₂ can evolve

(b) NH₃ can evolve (d) SO₂ can evolve

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125. Which of the following is / are true about K_2O_2 ?

- (a) Valency of K in this compound is 2
- (b) Oxidation number of K is +4
- (c) Oxidation number of Oxygen is -1 here
- (d) An aqueous solution of this compound is strongly basic
- 126. Which of the following oxides are amphoteric in nature while their pure elements are non-amphoteric,

(a) Sb_2O_3 (b) SnO_2 (c) MnO_2 (d) As_2O_3

Follow the instructions given in the table below to answer Questions 127-150.

Response	First Statement	Second Statement	
(1)	True	True and explains the first statement correctly	
. (2)	True	True but doesn't explain the first statement correctly	
(3)	True	False	
(4)	False	True	
(5)	False	False	

	First Statement	Second Statement	
127		Temperature of decomposition of MgCO ₃ is less than the temperature of decomposition of CaCO ₃ .	
128	Electrolysis is generally not used in the final stage of iron extraction from an iron ore.	Iron can exist as Fe^{2+} or Fe^{3+} in its ore.	
129	H ₂ S cannot act as an oxidising agent.	Sulphur in H_2S is in the lowest oxidation state.	
130	NO and NO_2 can be obtained by reacting Copper with HNO ₃ at two different conditions.	Copper can exist in two oxidation states Cu^+ and Cu^{2+} .	
131	Acidified $K_2Cr_2O_7$ solution is turned green by HI gas.	$Cr^{3+}_{(aq)}$ ion is green in colour.	
132	Latent heat of sublimation of Carbon is extremely high.	Covalent bonds are the bonds present in graphite.	
133	Though Sulphur forms S^{2-} ion, Chlorine doesn't form Cl^{2-} ion.	Sulphur is more electronegative than Chlorine.	
134	NH ₃ cannot act as an oxidising agent.	Nitrogen in NH ₃ is in a reduced state.	

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135	SO ₂ doesn't react easily with Oxygen directly.	This reaction is an endothermic reaction.	
136	Melting point of diamond is very high.	Covalent bonds are the bonds present in diamond.	
137	Hydrogen Astatide (HAt) doesn't act as a reducing agent.	Astatine in HAt is in an oxidised state.	
138	Zn gives H ₂ by reacting with both HCl(aq) and NaOH(aq).	Zn is an electropositive element.	
139	Nitric acid cannot act as a base.	Nitric acid is derived from N ₂ O _{5.}	
140	N ₂ O ₃ can act as an oxidising agent.	N_2O_3 easily decomposes into NO and NO_2 .	
141	Cu^{2+} and Al^{3+} can be separated using aqueous NH _{3.}	Al(OH) ₃ shows amphoteric properties.	
142	SiO ₂ can react with Rb ₂ CO _{3.}	Silicic acid is a strong acid.	
143	Barium doesn't react rapidly with water.	Barium is not an alkali metal.	
144	Nitrogen gas cannot act as an oxidising agent.	Electronegativity of Nitrogen is less than that of Oxygen.	
145	Hardness of diamond is much higher than the hardness of solid Carbon dioxide.		
146	NO ₂ cannot act as an oxidising agent.	NO ₂ can be easily converted into HNO _{3.}	
147	Nitrogen cannot act as an oxidising agent.	g Nitrogen atom is incapable of accepting electrons from outside.	
148	Lime water cannot be used to distinguish between NH ₄ Cl an (NH ₄) ₂ SO ₄ .	o Both NH ₄ Cl and (NH ₄) ₂ SO ₄ gived ammonia with lime water.	
149	Carbon cannot act as an oxidising agent	The electronegativity of Carbon comparatively low.	
150	Hot conc. H ₂ SO ₄ can be used to distinguish between AgCl and AgBr.	Hot conc. H_2SO_4 can act as a strong act	

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ANSWERS

(1) 5	(41) 4	(81)1 (82) 5	(121) 2 (122) 2
(2) 1	(42) 3	(82) 5	(123) 5
(3) 1	(43) 3		(124) 1
(4) 2	(44) 5	(84) 5	(125) 3
(5) 2	(45) 3	(85) 3	(126) 5
(6) 3	(46) 1	(86) 2	(127) 2
(7) 2	(47) 2	(87) 4	(128) 2
(8) 4	(48) 1	(88) 2	(120) 2 (129) 4
(9) 1	(49) 2	(89) 4	(12)) 4 (130) 2
(10) 3	(50) 5	(90) 1	
(11) 3	(51) 5	(91) 5	(131) 3
(12) 5	(52) 5	(92) 5	(132) 2
(13) 3	(53) 3	(93) 2	(133) 3
(14) 2	(54) 2	(94) 5	(134) 4
(15) 2	(55) 5	(95) 3	(135) 3
(16) 4	(56) 1	(96) 5	(136) 2
(17) 3	(57) 3	(97) 4	(137) 5
(18)4	(58) 1	(98) 5	(138) 2
(19) 3	(59) 5	(99) 3	(139) 4
(20) 4	(60) 2	(100) 3	(140) 2
(21) 2	(61) 4	(101) 3	(141) 2
(22) 4	(62) 4	(102) 4	(142) 3
(23) 3	(63) 2	(103) 5	(143) 4
(24) 2	(64) 3	(104) 4	(144) 4
(25) 5	(65) 4	(105) 2	(145) 3
(26) 5	(66) 4	(106) 2	(146) 4
(27) 5	(67) 2	(107) 5	(147) 5
(28) 2	(68) 4	(108) 4	(148) 4
(29) 2	(69) 3	(109) 5	(149) 5
(30) 1	(70) 2	(110) 5	(150) 2
(31) 3	(71) 4	(111) 3	
(32) 3	(72) 1	(112) 1	
(33) 2	(73) 4	(113) 5	
(34) 1	(74) 1	(114) 2	
(35) 3	(75) 1	(115) 1	
(36) 5	(76) 4	(116) 1	
	(77) 5	(117) 5	
(37) 4	(78) 5	(118) 2	
(38) 2	(79) 1	(118) 2 (119) 5	
(39) 3	(80) 2		
(40) 3	(00) 2	(120) 2	

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