	Guess a.	Paper Annual 2024CHEMISTRY 12Give the formulas of: i.Formaldehydeii.Acetaldehyde	
	a. 35.	What is Formalin?	
	35. 36.	Prepare acetone from calcium acetate.	
	37.	Give Industrial preparation of Formaldehyde.	
	37. 38.	How acetaldehyde is prepared in industry?	
	39.	How will you distinguish between ethanol and Eer za'dehvde? Give respective chemical reaction.	
	40.	What is "Halpform Reaction" Give is uses.	
	41.	Give reactions of Aldehyde with:	
	a	i. ECN ii. CH ₃ -CH ₂ -OH	
\int	42	What is Canizzaro's reaction? Write one example.	
No.	43.	How iodoform is prepared from acetaldehyde and ethyl alcohol?	
	44.	How HCHO and CH ₃ CHO are polymerized? Give chemical reaction?	
	45.	Write composition of Tollen's reagent? and which organic compound are usually identified by it?	
	46.	What is "Fehling's solution test" of aldehyde?	
	47.	Benedict's solution reacts with Aldehydes to give red-ppt. Justify it?	
	48.	Write down four uses of formaldehyde?	
	49.	Write four important uses of acetaldehyde?	
	50.	Write formulae of Melonoic acid and Phthalic acid.	
	51.	What are fatty acids? Give an example.	
	52.	Write the mechanism of Amide formation.	
	53.	How acetic acid is obtained from methyl cyanide?	
	54.	What is glacial acetic acid?	
	a.	Write any four uses of acetic acid.	
	55.	What are amino acids? Give two examples.	
	56.	What are essential and Non-essential amino acids2	
	57.	What is Zwitter ion? How it is formed?	
	58.	Explain acidic and basic behavior of Arnino acids!	
	59.	How amino acid is synthesized give one method.	
	60.	What is Ninhydrin Test?	
_	61 What is pepticle bond? Write down formula of a dipeptide?		
$\langle \rangle$	LONG QUESTIONS		
		LONG QUESTION NO. 5	
	 ✓ 	What is Mendeleev's periodic table? Discuss improvements in Mendeleev's periodic table.✓ Explain peculiar behavior of Beryllium. ✓ Describe the process for the preparation of sodium metal on industrial scale by Down's	

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 Guess Paper Annual 2024 ✓ Define ionization energy. How does it vary in a group and period of the periodic table? ✓ Define hydrides give their classification? ✓ Explain similarities of hydrogen with halogens and dissimilarities with Alkali metals. ✓ Discuss the position of hydrogen over Vira group elements. ✓ Write four points which show the peculiar belot fluorme from other halogen. (3 Time) ✓ Write the four points when bleaching powder reacts with? i. dil.H₂SO₄ ii. Conc.H₂SO₄ iii. NH₃ iv. HI ✓ What is Bleaching powder is prepared by Hasenclever's method? Give its reaction with HCl and NH₃. 	 CHEMISTRY 12 cell? What are advantages of the process? Describe commercial preparation of sodium hydroxide by diaphragm cell or Nelson cell. What is the role of Gypsum in industries? Give role of line in industries? Where solve eight points. STION NO. 6 Write essential qualities of a good fertilizer. 'Nitrogenous fertilizer is an important class of fertilizers for crops'. Discuss. Write commercial uses of Halogens and their compounds? Write the application of noble gases.
 Explain cracking of hydrocarbons giving its two types. Explain reforming of petroleum with the help of suitable example. Explain any four features of organic compounds. What is orbital hybridization? Explain sp³-hybridzation of carbon. What is sp- hybrization ? Explain structure of acetylene according to this theory. Define four types of isomerization with one example. 	 STION NO. 7 Explain the structure of Benzene on the basis of atom orbital treatment? (10 Time) Discuss two industrial and two laboratory methods to prepared Benzene. What are Friedel and Craft's reactions? Give one example in each case with mechanism. Describe nitration and sulphonation of benzene with mechanism. Convert Benzene into: i. Cyclohexane ii. Malere and SUONENCES Explain the structure of Benzene on the basis of atom orbital treatment? Discuss two industrial and two laboratory methods to prepared Benzene. What are Friedel and Craft's reactions? Give one example in each case with mechanism. Convert Benzene into: Clyconences Explain the structure of Benzene on the basis of atom orbital treatment? Discuss two industrial and two laboratory methods to prepared Benzene. What are Friedel and Craft's reactions? Give one example in each case with mechanism. Describe nitration and sulphonation of benzene with mechanism. Convert Benzene into: Convert Benzene into: Cyclohexane ii. Maleic acid Glyoxal Benzene sulphonic acid

