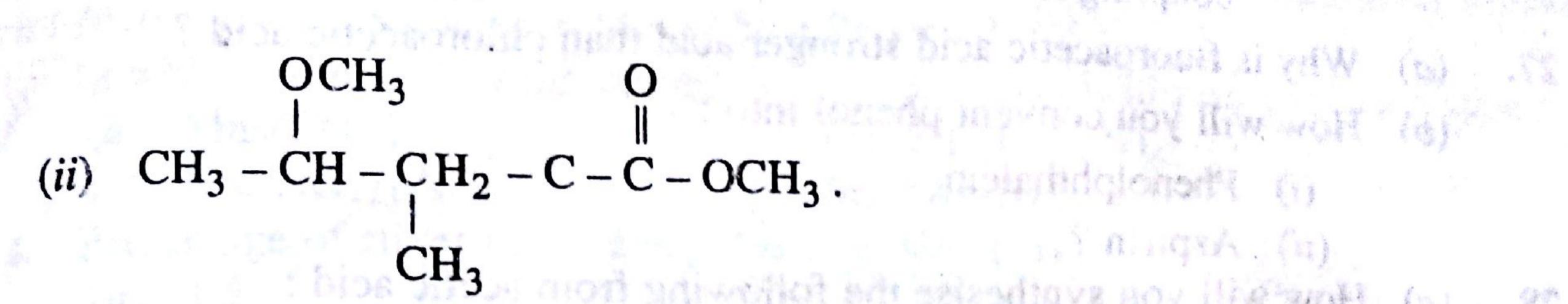
New Style MODEL TEST PAPER-6

		CLASS-XII	(H.P.)	
	PARTIES THE RESERVE OF THE PARTY OF THE PARTY.	CHEMIS 7	CRY and only in	
	Allowed: 3 Hours			mum Marks: 60
Specia	l Instructions : Same as in	n Model Test Pap	er-1.	
1.	A solid is made up of two atoms X occupy all the to (a) X_2Z	etrahedral sites.	IZ. Atom Z are in ccp ar	rrangement while bund is:
	$(c) X_2^2 Z_2$		XZ.	
2.	In physical adsorption th			
Drift W.	(a) Ionic			discount of the
	(c) van der Waals	(d)	H-bonding.	
3.	A match box exhibits:			
	(a) Cubic geometry		Monoclinic geometry	
	(c) Tetragonal geometr(d) Orthorhombic geom			
4.	How many grams of methanol would have to be added to water to prepare 150 ml of solution which is 2 M CH ₃ OH:			
4 acti	(a) 9.6	(b)	2.4	
	(c) 9.6×10^3	(d)	4.3×10^2 .	Lucia Pott
5.	A current of 9.6. 3.0 g of the metal which			the state of the s
70 110	(a) 10	(b)	50	in wolf ec
	(c) 30	(d)	96.5.	
6.	The oxidation number of	THE STREET STREET STREET	2. 1	
	(a) 0	(b)	TO SUIT THE PROPERTY OF	
	(c) 2	(d)	And the standard of the ore	
7	Define mutarotation.		HOLIONOT WALKERSON ON	
Q.	Define chelating legand.		Wind data quidzia di 1251 b	
0.			es night blindness	tad W (m)
10	Name the vitamin whose deficiency causes night blindness. Give the Zwitter ion structure of α -amino acid.			
11.	Crystalline CsBr has a BCC structure. Calculate the edge length of the unit cell if the			
	density of CsBr crystal i	S 4.24 g Cill Conte	DINO OLGANIEN ONOM SIVER	
				igati (m) At
	Distinguish between calc			
12.	With the help of suitable	■ 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	交通 一种人工 一种	
	(i) H.V.Z. reaction			
	(ii) Kolbe's reaction.			
12	How will you convert ch	lorobenzene into	DDT and diphenyl?	

14. How will you bring about the following conversions: " 50.55

- Phenol into salicylic acid
- Ethyl alcohol into tertiary butyl alcohol?
- Give the IUPAC name of the following compounds:

 $CH_2 - CH - CH_2$



- EMF of cell corresponding to reaction:
 - $Zn(s) + 2H^{+}(aq) \longrightarrow Zn^{2+}(0.1M) + H_{2}(g)$ (1 atm) is 0.28 V at 25°C. Write the half cell reaction and calculate the H⁺ ion concentration at the hydrogen electrode.

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- 17. Define conductance. What is the relation between specific conductance and molar conductance?
- A reaction which is of first order with respect to the reactant, A has rate constant of 6 min⁻¹. If we start with [A] = 5.0 mol L^{-1} , when would value of [A] reach 0.05 $mol L^{-1}$?
- What concentration of benzoic acid (which forms a dimer in benzene) would be required to decrease the freezing point of benzene by 0.5°C ? K_f (benzene) = 5.10°C kg mol⁻¹, freezing point of pure benzene = 5.5°C.
- What is Van't Hoff equation for dilute solution? How does it help in calculating the molar mass of the solute?
- (a) What is mutation?
 - (b) Differentiate between DNA and RNA.
- 22. Give the construction and working of fuel cell.
- 23. How will you account for the following:
 - (i) Transition metals have tendency to form complex compounds.
 - (ii) It is not proper to regard Zn, Cd and Hg as the transition metals.
 - (iii) The ions of the transition metal atoms are generally coloured?
- 24. Name the factors which influence the extent of adsorption of a gas on the surface of solid.
- How will you prepare potassium permanganate from pyrolusite?
 - (b) Give the structure of KMnO₄.
- (a) Ammonolysis of alkyl halides is not a good method for the synthesis of amines. 26. Give reasons for your answer.

- (b) How will you convert benzene diazonium chloride into
 - (i) Phenol
 - Chlorobenzene
 - (iii) Benzene?

- Why is nitration of aniline not done directly?
- (ii) How will you convert alkyl halide into alkyl cyanide?

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How is benzene diazonium chloride prepared? Give an example of coupling reaction.

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- Why is fluoroacetic acid stronger acid than chloroacetic acid?
 - (b) How will you convent phenol into:
 - Phenolphthalein
 - (ii) Aspirin?
- How will you synthesise the following from acetic acid:
 - Acetone
 - (ii) Ethyl acetate?
 - How do you account for the following:
 - Carboxylic acids have higher boiling points than corresponding alcohols?
 - (ii) C₂H₅NH₂ is soluble in water?