SEAT NUMBER -				ı
DEI II I (OI)IEEI				ı



Dnyansagar Coaching Classes, A'nagar

Std. - XII Sub-Chemistry-II

Ist Preliminary

Time - 2 hrs
Max Marks - 40

(Organic & Inorganic chemestry)

Note :- i) All questions are compulsory

ii) Give balanced equation & Draw neat and labelled diagram whenever necessary.

Q.1. Select and write the most appropriate answer from given alternatives in each sub question.

(08)

- 1) The separation of lanthanides in ion exchange method is based on:
 - a) basicity of the hydroxides
- b) size of the ions
- c) the solubility of their nitrates.
- d) oxidation state of the ion.

- 2) Phosgene is:
 - a) PH₂

b) POCI,

c) CS₂

- d) COCI
- 3) Phenol can be distinguished form alcohols with:
 - a) Schiff's base

b) Tollen's reagent

c) FeCI,

- d) Lime water.
- 4) Ketones are formed by the oxidation of:
 - a) aldehydes

- b) primary alcohols
- c) secondary alcohols
- d) tertiary alcohols.
- 5) Hydrolysis of esters in alkaline medium is known as:
 - a) Saponification

b) Hydration

c) Esterification

- d) Alkalisation.
- 6) Primary amine reacts with an aldehyde to give:
 - a) amide

b) imine

c) nitrite

- d) nitro compound.
- 7) The protein present in hairs is:
 - a) albumins

b) insulin

c) keratin

- d) haemoglobin.
- 8) The medicines given to patients who are violent and mentally agitated are called:
 - a) Antibiotics

b) Sedatives

c) Analgesics

d) Antipyretics

Q 2. A Attempt any ONE

(02)

- i) How is glucose prepared from sucrose.
- ii) Give the preparation of Dacron.

B Attempt any ONE

(02)

- i) How many optical isomers possible for 2-chlorobutane ?write enantiomers of D-chloro butane.
- ii) What are the fatty acids? How will you obtain ethanoic acid from ethanol.

C) Answer the following.

(02)

- i) Write the structures of following.
 - a) 2-ethoxy propane b) ethyl ethanoate.

	D)	Give reasons.(any one)	(02)
		a) Alcoholic HCl is used in the preparation of glucose from sucrose.	
Q.3	4)	b) 1% ethanol is added in chloroform bottles. Attempt any ONE of the following	(03)
Ų.S		Attempt any ONE of the following. How will you prepare ethyl methyl ether from -	(03)
	1)	a) Diazomethane b) ethylchloride. c) Give uses of ether	
	ii)	How will you convert -	
	11)	a) chloral in to chloroform.	
		b) chloroform in to carbylamine.	
		c) Salicylic acid to aspirin.	
Q. 3	B]	Answer any ONE	(03)
		Define monohydric alcohols? Give their classification.	` /
	ii)	How will you obtain acetaldehyde & acetone from Grignard reagent.	
	\mathbf{C}]	Answer the following.	(02)
	i)	Write any two use of nylon-6 & any two physical properties of amines.	
Q.4.	A	Answer the following.	(04)
	i)	Explain the Mechanism of the alkaline hydrolysis of a primary alkyl halide with E.P.D.	
	B)	Answer any one:	(04)
	i)	Identify A, B, C & D in the following reaction & rewirte the equations.	
		a) Methane $\xrightarrow{\text{Chlorinati on}} \mathbf{A}$	
		b) A $\xrightarrow{\text{alkanline hydrolysis}}$ B	
		c) C $\xrightarrow{\text{SOCl}_2}$ C	
		d) D $\underline{-\underline{KCN}} \rightarrow D$	
	ii)	a) What is action of Acetylchloride on ethyl amine & diethyl amine.	
		b) What is the action of fehling solution on acetaldehyde & acetone.	
Q. 5	A]	Answer any ONE	(04)
	_	What is action phenyl hydrazine on acetaldehyde & acetone.	(/
	ii)	What is action of following on ethyl alcohol	
		a) PCl_5 b) conc. H_2SO_4 c) Na d) $K_2Cr_2O_7$	
	\mathbf{B}	Answer any TWO	(04)
	i)	1	
	-	Explain the order of Basicity of amines.	
	iii)	How will you prepare acetic acid from.	
		a) acetonitrile b) solid CO ₂ .	
