## **CHEMISTRY QUESTION PAPER**

Time	: 2 Hrs.			Max. Mark	s:40	
Q. 1	Select and write the most app	propriate a	answer from the give	en alternatives for	each	
$Y_{i}^{\ell}$	sub-question.				[8]	
(i)	Which of the following is first or	xidation pro	oduct of secondary alco	ohol?	(1)	
•	(a) Aldehyde	•	Ketone			
	(c) Carboxylic acid		Alkene			
. (ii)		` '		Ž.	. (1)	
` '	(a) Antibiotic	(b)	Antiseptic		8 355	
	(c) Analgesic	(d)	Antacid			
(iii)	Grignard's reagent is prepared b	v action of	magnesium metal on	M	(1)	
(,	(a) Alcohol		Phenol			
	(c) Alkyl halide		Benzene	25.		
(iv)	Which of the following compoun	•	# · · ·		(1)	
(,	(a) Ethane		Ethanol		\-/	
	(c) Methoxymethane	` '	Ethylene			
(v)	Hydrolysis of esters in alkaline		•		<b>(1)</b>	
( • )	(a) Etherification		- Hydration		127	
	(c) Saponification	• • •	Esterification			
(vi)	•	` '			(1)	
( • 1 )	(a) Carbylamine test	•	Biuret test		(1)	
	(c) Xanthoproteic test	• •	Millon's test			
(vii)		• •			(1)	
( 111 )		ing electron (b)			(1)	
	(a) ns	• •	(n – 1)d			
/viii\	(c) $(n-2)f$ The number of isomeric amines	, ,	•		(1)	
( 1111 )		• •			121	
	(a) 3	(b)				
0.4	(c) 5	(d)	O		[e]	
-	A) Attempt any One:		17710 (1)	. 11	[8]	
	Define Fibre. Give the structural			-	(2)	
	What is the action of Na – Hg/I	$H_2U$ on (a)	Acetaidenyde, (b) Gluc	ose :	(2)	
	ttempt any One:					
(i)	What are lanthanones? Give na	•	mbols of any 'two' rare	e earths.	(2)	
(ii)	How is chloroform converted int	ło				
	(a) Phosgene					
	(b) Chloropicrin				(2)	
(C) A	nswer the following:					
(i)	Starting from Ca salts of fatty acids, write preparation of					
	(a) Acetaldehyde (b)	Acetone			(2)	
(ii)	Distinguish between Oils and F	ats.			(2)	
Q. 3 (	A) Attempt any One:					
(i)	Explain the terms:					
	(a) Enantiomers, (b) Plane pola	rized light,	(c) Asymmetric carbon	atom.	(3)	
(ii)	Write chemical test to distingui	sh between	propan-1-ol, propan-2	-ol and 2-methyl, pr	opan-	
, ,	2-ol.				(3)	
(B) A	ttempt any One :				-	
	What is the action of following	reagents on	ethyl iodide?		(3)	
(=)	(a) Aqueous KOH (b) Alcoholi	_	•			
(ii)	Write a note on Williamson's Sy			y ethane.	(3)	
	namer the following:			,	,,,	
. حرد عدد .	Explain, why does lanthanium fo	orm La <sup>3+</sup> ior	n, while cerium forms (	Ce <sup>4+</sup> ion.		
			.,		(2)	
					· —,	

Q. 4 (A)	) Answer the following	[8]		
	What are phenois? How is carbolic acid prepared from aniline?			
	Write a chemical test to distinguish between alcohol and phenol.			
(B) Atte	empt any One:			
(i) Identify A, B, C and D. Write the complete reactions.				
	$CH_3-CN \xrightarrow{Na+R-OH} CH_3I \xrightarrow{CH_3I} CH_3I \xrightarrow{CH_3I} CH_3I$	(4)		
(ii)	Convert the following:			
	(a) Dry ice into acetic acid			
	(b) Ethyl acetate into acetone	(4)		
Q. 5 (A)	Q. 5 (A) Attempt any One:			
(i)	Write a note on aldol condensation.	(4)		
(ii)	(ii) Explain the mechanism of alkaline hydrolysis of t-butyl bromide with energy			
, . ,	diagram.	(4)		
(B) Att	tempt any Two:			
	Write 'two properties' and 'two uses' of nylon-6.			
	How is glucose prepared from sucrose?			
(iii)				
` ,	(a) Antioxidants			
	(b) Antiseptics ?	(2)		