	an souch	Sig. o	f Candidate				Sig. of Invigila	tor	
			(MISTRY CTION - A (I				
ime	allowe	ed: 25	Minutes		(Revised Syli	abus)	Version	Numb	per 1 7 0
IOTE:	its	elf. It	should be c	omplete	d in the first	25 mi		ded ov	the question par ver to the Cen
2. 1	Circle	the cor	rect option i.e.	A/B/0	C / D. Each part	arries	one mark.		
	(i)	Which	of the following	is not p	resent in acid rain	?			
		A.	CH_3COOH	B.	$IINO_3$	C.	H_2CO_3	D.	H_2SO_4
	(ii)	Which	region of electi	omagne	•	olved i	n NMR spectrosco	эру?	
		A.	Radio waves	B.	Ultraviolet	C.	Visible	D.	Microwaves
	(iii)	Which	of the following	g compou	ınds gives an acid	lic solu	tion with water?		
		Α.	$BaCl_2$	В.	$SiCl_4$	C.	NaCl	D.	KCl
	(iv)	When	a Complex refl	ects back	k whole of white lig	ght, its	colour will be:		
		Α.	Green	В.	Red	C.	White	D.	Black
	(v)	Which		oxide is	used as a Cataly	st in Co			
		Α.	V_2O_5	B.	P_2O_5	C.	Fe_2O_3	D.	Mn_2O_3
	(vi)	Full na	ime of Bucky B						
		Α.	Buckminister	Carbene	es	B.	Buckminister A	•	
		C.	Buckminister			D.	Buckminister F		
	(vii)	Which	of the following	j alcohol	s will be most eas	ily dehy	ydrated to give an		
		Α.	3 -propanol			B.	2 -methyl-2 -	propan	ol
		C.	1 -propanol			D.	2 -propanol		
	(viii)	Benzo	ic acid is obtain	ed by th	e oxidation of:	_			
		A.	p–Xylene	B.	m-Xylene	C.	Benzene	D.	Toluene
	(ix)						y direct reaction		
		Α.	RI	B.	RF	C.	RBr	D.	RCl
	(x)			-	COCi the product f				
		Α.	Ethanol	B.	Ethanal	C.	Ether	D.	Ester
	(xi)				dergo Aldol conde				
		Α.	Benzaldehyd			B.	Trimethylaceta	ldehyde	:
		C.	Formaldehyd			D.	Acetaldehyde		
	(xii)		name of Vale			_		_	
		Α.	Propanoic ac		Ethanoic acid	C.	Pentanoic acid	D.	Butanoic acid
	(xiii)	•	lysis of nitriles p			•	NPC C	Б	N.C.
		Α.	TNT	В.	Carboxylic acids	C.	Nitrates	D.	Nitroalkanes
	(xiv)				les on earth are:	_	Limina	_	Vitamina
	, ,	A.	Carbohydrate		Olive oils	C.	Lipids	D.	Vitamins
	(xv)		Potassium	g is a trad B.	ce mineral in hum Calcium	an diet C.	z Zinc	D.	Sodium
	(sa ii)	A.					ZiiiC	U.	Soujum
	(xvi)		Three	B.	into how many cla Four	C.	One	D.	Two
	(302))	A. Ozone				O .	One	U.	1 ***
	(xvii)	A.	e layer is presei 80 km above			В.	100 km above	the eart	·h
		A. C.	5 km above t		1	D.	28 km above the		
		U.	J MIII ADOVE I	ne editi		<u></u>	Zo Kili above ti	io cartii	•
	For E	xaminer	's use only:						<u> </u>
			•			Total	Marks:		17
						Mark	s Obtained:		

----- 2HA 1709 (L) *** -----



(XIX)

CHEMISTRY HSSC-II

(1+2)

(Revised Syllabus)

Time allowed: 2:35 Hours

Total Marks Sections B and C: 68

Sections B and C comprise pages 1-2. Answer any fourteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

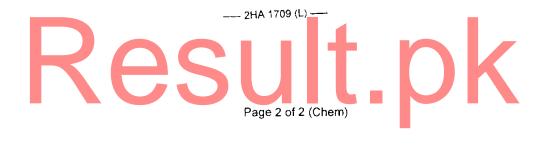
SECTION - B (Marks 42)

		SECTION - B (Marks 42)						
2 Ar	ารพย	er any FOURTEEN parts. The answer to each part should not exceed 5 to 6 lines.	$(14 \times 3 = 42)$					
(i)		Na, Si and Cl are present in the same period of the periodic table but they have different melting						
		points. Why?	(3)					
(ii))	Salts of Be^{2+} can have four water molecules as water of crystallization. Explain how Be^{2+}	$3e^{2+}$ is					
		associated with four water molecules.	(3)					
(iii))	What is Ligand? Give an example of a tridentate and a hexadentate ligand?	(1+1+1)					
(iv	')	How are chromate and dichromate ions interconverted to one another? Write balance	ed equation					
		to show this interconversion and mention the colour change during this interconversion	on. (1+1+1)					
(v))	State and explain the Morkownikov's rule.	(3)					
(vi	i)	What are optical isomers? Draw enantiomers of lactic acid.	(1+2)					
(vi	ii)	Write the reaction equations for the preparation of following compounds using Methy	l magnesium					
		bromide.	(1.5+1.5)					
		(a) Ter-butyl alcohol (b) Acetic acid						
(vi	ii)	Explain the acidic oxidation of Cumene.	(3)					
(IX	()	Write the equations of reaction of $2.4 - DNPH$ with following compounds:	(1.5+1.5)					
		(a) Acetaldehyde	(1.0 1.0)					
		(b) Acetone						
(x))	What is Fischer esterification? Give an example. Write the name of an ester used as	orange flavour					
(xi)	Write the names of following compounds:	(1+1+1)					
		$\begin{array}{cccc} OH & O \\ O_2 N & NO_2 & CH_3 \end{array}$						
		(a) (b) c) $(CH_3)_2C =$	$C(CH_3)$					
		NO ₂						
(xi	i)	How open chain structure of glucose is converted to its cyclic forms?	(3)					
(xi	ii)	Define the following:	(1+1+1)					
		(a) Inhibitors						
		(b) Lipids(c) Saponification						
(XI	v)	Which functional groups are used as chromophore and auxochromes in azo dyes? G	ive name of					
		two azo dyes.	(2+1)					
(xv	/)	Give the composition of following cosmetics:	(2+1)					
		(a) Nail polish (b) Nail polish remover						
(xv	zi)	Write the sources and environmental effects of following pollutants:	(1+1+1)					
,	,	(a) Ozone	(
		(b) PAN (c) Oxides of Sulphur						
(xv	zii)	What is the role of leather tanneries in water pollution? What health problem can be o	caused by this					
		pollutant? How can we control this pollutant?	(1+1+1)					
(xv	ziir)	What is combustion analysis? Give its drawback.	(2+1)					

What is mass spectrometer? How various ions are produced in a mass spectrometer?

SECTION - C (Marks 26)

Note:		Attempt	any TWO questions. All questions carry equal marks.	$(2 \times 13 = 26)$		
Q . 3	a.	Discu	ss the effect of heat on Carbonates and Nitrates of alkaline earth metals.	(2+2		
	b.	What	are coordination compounds? Give an example of a positively charged complex, a	a negatively		
		charg	ed complex and a neutral complex along with their IUPAC name.	(0.5+4.5		
	c.	How	would you prepare Lassaigne's solution? For what purpose is it used?	(3+1)		
Q. 4	a.	Discu	ss the mechanism of Sulphonation of benzene.	(4)		
	b.	What	is Cannizoro's reaction? Explain the mechanism of this reaction using a suitable example	le. (1+4		
	C.	Starti	ng from acetylene how would you prepare the following compounds?	(2+2		
		(i)	Acetaldehyde			
		(ii)	1, 1, 2, 2 —tetrabromo ethane			
Q. 5	a.	How	does an enzyme work? Using labelled diagrams explain two mechanisms of enzyme act	tion. (2+4)		
	b.	What is a condensation polymer? Explain the formation of Nylon-6, 6 using chemical equation. (
	c.	What	is industrial smog? Write the conditions for development of photochemical smog.	(1+2		



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Answer Sheet No	
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CHEMISTRY HSSC-II

		<u>SE(</u>	SHON - A	<u>iviark</u>	<u>s 17)</u>		
	ed: 25 Minutes	·	(Revised Sy	llabus)	Versio	n Num	nber 1 7 0
its	ection–A is compulsor self. It should be co uperintendent. Deleting	mplete	d in the first	25 min	nutes and har	ided (the question pap over to the Cent
Circle	the correct option i.e.	A/B/0	7 D. Each part	carries	one mark.		
(i)	Which of the following	alkyne v	would not produc	e a Keto	ne on hydration?	?	
	A. 2-Butyne	B.	Ethyne	C.	Propyne	D.	1-Butyne
(ii)	For which mechanisms	the firs	t step involved is	the san	ne?		
	A. E_1 and SN_2	B.	E_1 and SN_1	C.	E_1 and E_2	D.	E_{z} and SN_{z}
(iii)	Green is the character	istic flan	ne colour of:				
	A. Strontium	В.	Sodium	C.	Calcium	D.	Barium
(iv)	Magnetic moment (μ)					•	ed:
, ,	A. Neutrons	В.	Nucleons	C.	Electrons	D.	Protons
(v)	When $AgNo_3$ is added						
/f\	A. White	В.	Black	C.	Yellow	D.	Blue
(vi)	In which of the followin			-		_	•
(143)	A. Phenanthrene		Diphenylethane		Naphthalene	D.	Anthracene
(vii)	It is possible to distingu		ween optical isor	•	ū		
	A. IR spectroscop C. Chemical tests	•		B. D.	Polarimetry	oto	
(viii)	Reaction of alkylhalide		a motal violds:	U.	Mass spectron	епу	
(VIII)	A. Alkenes	э w itti <i>i</i> v В.	Phenols	C.	Alkanes	D.	Alcoh <mark>o</mark> ls
(ix)	Which one of the follow						7(10011013
Vy	A. Benzoic acid	В.	Picric acid	C.	Acetic acid	D.	Formic acid
(x)	Which one of the follow						
` '	A. Fehling's reag			B	Benedict's read		
	C. Grignard's rea			D.	Tollen's reager		
(xi)	The reaction of Carbox	_	with an alcohol				
` '	A. Ammonolysis	В.	Esterification	C.	Saponification	D.	Hydrolysis
(xii)	Prosthetic groups are:				•		•
	A. Proteins			B.	Tightly bound t	o enzy	mes
	C. Required by al	l enzym	es	D.	Loosely attach	ed with	ı enzymes
(xiii)	All lipids are:						
	A. Heterocyclic	B.	Hydrophilic	C.	Homocyclic	D.	Hydrophobic
(xiv)	Polymers which are pre		rom more than c	ne kind	of monomers are	called	! :
	A. Addition polym			B.	Linear Polyme	`S	
	C. Homopolymers			D.	Copolymers		
(XV)	In leather industry which		-				
,	A. Aluminium	В.	Chromium(III)	C.	Chromium(VI)	D.	Nickel
(xvi)	Which of the following					_	l f
/va :::\	A. Microwaves	B. :====================================	Radio waves	C.	Ultraviolet	D.	Infrared
(xvii)	Which of the following		_	<u></u>	Elwara	D	Cuana
	A. Oxalato	B.	Ammine	C.	Fluoro	D.	Cyano
For E	xaminer's use only:						
					Marks:		17
				Marks	Obtained:		
			2HA 1709 (OI	1) ***			



CHEMISTRY HSSC-II

29

(Revised Syllabus)

Time allowed: 2:35 Hours

(c)

Microwaves

Total Marks Sections B and C: 68

NOTE: Sections B and C comprise pages 1 – 2. Answer any fourteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet—B if required. Write your answers neatly and legibly.

SECTION - B (Marks 42)

Q. 2	Answe	er any f	FOURTEEN parts. The answer to each part should not exceed 5 to 6 lines.	(14 x 3 = 42)				
	(i)	Both (Carbon and Silicon belong to the same group but the physical properties of their o	xid e s				
		are ve	ery different. Why?	(3)				
	(ii)	Write the equations for the reaction of PCl_s with hot and cold water.						
	(iii)	Write	the names of following compounds:	(3)				
		(a) (b) (c)	$K_2[PtCl_6]$ $[Co(NH_3)_6]Cl_3$ $[Pt\ Cl\ (NO_2)(NH_3)_4]SO_4$					
	(iv)	What	are three possibilities when white light falls on a complex compound?	(3)				
	(v)	How v	would you perform the test for detection of 'N' in an organic compound by using its	j				
		Lassaigne's filtrate? What colour is observed if Nitrogen is present? Also write the formula of						
		this co	oloured compound formed in this test.	(1+1+1)				
	(vi)	Write	IUPAC names of following compounds:	(3)				
		(a)	(b) OH $CH_2 = CH - CH_2 - C = CH$	≘ CH				
	(vii)	Define	e the following:	(3)				
		(a) (b) (c)	Enantiomers Resonance Functional group					
	(viii)	How v	would you prepare a primary and a secondary alcohol from Grignard's reagents?	(1.5+1.5)				
	(ix)	Give mechanism of the elimination reaction of ter-butyl bromide in the presence of a strong base. (3)						
	(x)	Why phenols are more acidic than alcohols? How can you increase or decrease the acidity of						
		pheno	ols?	(2+1)				
	(xi)	Write	the mechanism of condensation of ethyl alcohol molecules to form diethyl ether.	(3)				
	(xii)	Draw	the structure of following compounds:	(3)				
		(a) (b) (c)	3Methyl cyclohexanone ∝ Methyl propionaldehyde Acetophenone					
	(xiii)	Write	a general method of preparation for each of the following compounds:	(1.5+1.5)				
		(a) (b)	Acyl chloride Acid anhydride					
	(xiv)	What	are polysaccharides? Draw the structure of a Polysaccharide.	(1.5+1.5)				
	(xv)	What is saponification? Write a chemical equation to explain it. (1						
	(xvi)	Differentiate between: (1.5						
		(a) (b)	Addition polymer and condensation polymer Thermoplastic polymer and thermosetting polymer					
	(xvii)	Give a	any six chemical pollutants present in the photochemical smog.	(3)				
	(xviii)	Draw	a labelled diagram to show the apparatus used in combustion analysis.	(3)				
	(xix)	xix) What will be the effect of following radiations on an organic molecule?						
		(a) (b)	Ultraviolet radiations Infrared radiations					

SECTION - C (Marks 26)

Note:		Attempt any TWO questions. All questions car	ry equal marks.	$(2 \times 13 = 26)$
Q. 3	a.	Give reactions of period 3 elements (from $\it Na$ to	(Ar) with water,	(5
	b.	What is meant by the coordination number of a	central metal atom or ion? Descr	ibe the geometries
		(shapes) of the complexes with the coordinatio	n numbers 2, 4 and 6.	(1+4
	c.	Explain the followings:		(1.5+1.5
		(i) Destructive distillation of coal		
		(ii) Homologous series		
Q. 4	a.	Describe the following reactions with mechanis	ms:	(4+4)
		(i) Aldol condensation		
		(ii) Friedel-Crafts Acylation		
	b.	How will you distinguish between 1-Propanol a	nd 2-Propanol?	(2)
	c.	Explain with a suitable example that ozonolysis	is helpful to locate the position of	double bond in
		an alkene.		(3)
Q. 5	a.	Explain the structures of proteins.		(4)
	b.	Discuss the sources of raw materials used in ch	nemical industries.	(4)
	c.	Explain Green House Effect and discuss its role	e in Global Warming and give one	suggestion
		to control it.	It. Ok	(3+1+1)

Page 2 of 2 (Chem)

THE MEDIATE MOORE	Roll No.	<u> </u>		
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Answer Sheet No.	 Q

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CHEMISTRY HSSC-II

SECTION - A (Marks 17)

ne a	allo		5 Minutes A is compulso	orv. All r	parts of thi	s section a	re to be ans	wered on	(Old Syllabus)			
		itself. It		omplete	d in the	first 25 mi	nutes and	handed of	over to the Cent			
	Circle the correct option i.e. A / B / C / D. Each part carries one mark. (i) Which one is the correct order of Hydration Energy of Na ⁺ , Mg ⁺⁺ , Al ⁺⁺⁺ ions?											
	(i)				of Hydration		***					
		Α.	$Na^+ > Al^{+++}$			В.	$Al^{+++} < M$					
		C.	$Na^+ < Mg^{++}$			D.	$Al^{+++} > M$	$g^{++} > Na^+$				
	(ii)		name of mineral	·=	=			_				
	,	Α.	Gypsum	В.	Dolomite	C.	Calcite	D.	Natron			
	(iii)				nitric acid a	-			ormation of a layer o			
		A.	Aluminium Ni			В.	Aluminium					
	Z1, A	C.	Aluminium Hy			D.	Aluminium	Oxide				
	(iv)	Laugi A.	hing gas is chem $N_2 O$	nically: B.	N O	C.	NO_2	D.	N.O			
	(v)		fluoro compour				-	D.	N_2O_5			
	(v)	іману А.	Small size of		r_4 and δr_6	Show merthe	iss due to.					
		B.	High ionization		of Fluorina							
		C.	Restriction of									
		D.	High electron			office to octet						
	(vi)		h of the following	· ,		sition elemer	nt?					
	(*,)	Α.	Cr	B.	Zn	C.	Mn	D.	Fe			
	(vii)	The t	ype of hybridizat	ion of ca	rbon in Ethy	lene molecul	e is:					
		A.	-Sp	В.	Sp^2	C.	Sp^3	D.	dsp^2			
1	(Viii)	β β , β' -	-Dichloroethyl S									
	/i\	A.	Bio-gas	B.	Laughing		Mustard ga		Phosgene gas			
	(ix)	vvner	benzene reacts	WITH BIC	amine in the	presence of	$FeBr_3$, the pr	oduct obta	inea (\$)			
			Br		Br		€r Br					
			(O)	_		_	Br	_				
	()()	A.	Jacksonhila in ou	B.	Br	C.	Er	D.				
	(x)	A.	electrophile in are H_2SO_3	omatic Si B.	H_2SO_4	is. C.	SO_3^+	D.	SO_3			
	(xi)								olysis, the product			
	(/		ned is:				,	,				
		A.	3-Methyl-3-t	outanol		В.	2-Methyl-3	3-butanol				
		C.	2-Methyl-2-t	outanol		D.	A seconda	ry alcohol				
	(xii)	Rectif	fied Spirit is conv			alcohol by:						
		Α.	Passing throu	~	coal	В.	Denaturing					
		С.	Destructive di			D.	Re-distillati	on in prese	ence of CaO			
İ	(xiii)		orm test is used	~		n	2 Havenen	f 0 -	to-ono			
		A. C.	Ethanol from Ethanol from			B. D.	3-Hexanor					
	/ s.eis.e'						Acetone fro	ım Acetalu	enyue			
	(xiv)	VVIIICI	n of the following	i is the st	COOH	enzoic aciu r			соон			
			\Diamond				Соон					
				_		_		_	C004			
	, .	Α.		В.	со̀он	C.	CÓOH	. D.	OH			
1	(xv)						n acid or a ba A Ketone	ise, the pro D.	duct obtained is: A Carboxylic acid			
	(xvi)	A. Which	An Aldehyde n of the following	B, i enzyme	An Alcoho			U.	A Garboxylic acid			
,	(/V I.	A.	Urease	јепzутте В.	Maltase	C.	Lipase	D.	Invertase			
((xvii	1 2 2	n of the three ele									
		Α.	N, S, P	B.	N , Ca , P	C.	N, S, K	D.	N, P, K			
	_											
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							Marks:	17				

Marks Obtained:



Q.

CHEMISTRY HSSC-II

(Old Syllabus)

Time allowed: 2:35 Hours

Total Marks Sections B and C: 68

NOTE: Sections B and C comprise pages 1 – 2. Answer any fourteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet–B if required. Write your answers neatly and legibly.

SECTION - B (Marks 42)

Answe	er any I	FOURTEEN parts. The answer to each part should not exceed 5 to 6 lines. (14 x 3	= 42)						
(i)	(a)	Why the second electron affinity of Group-VI A elements is expressed in							
		positive figures?	(1.5)						
	(b)	Write any three properties of Hydrogen that are similar with Alkali Metals.	(1.5)						
(ii)	(a)	Why Lithium shows different behaviour in Group IA? Give reason.	(01)						
	(b)	What happens when:							
		i) Lithium nitrate is decomposed.	(01)						
		ii) Sodium nitrate is decomposed.	(01)						
(iii)	(a)	Write the composition of Borax.							
	(b)	What is Borax Bead Test? Explain its Chemistry							
(iv)	(a)	What is Aqua Regia? How does it act on Gold?	(02)						
	(b)	How does phosphorus trichloride react with methanol? Write chemical equation.	(01)						
(v)	(a) Why Hydrogen fluoride is a colourless liquid while Hydrogen Chloride is a colourless								
		gas at room temperature?	(01)						
	(b)	How does Chlorine react with Cold and Hot Sodium Hydroxide?	(02)						
(vi)	Why	most of the compounds of Transitron metals are coloured? Explain and write an example.	(03)						
(vii)	Name	the following complex compounds:	(03)						
	(a)	$[Ni(CO)_4] \qquad (b) \qquad K_4[Fe(CN)_6] \qquad (c) \qquad K_2[PtCl_6]$							
(viii)	(a)	(a) Coal is a source of a large number of organic compounds and is called Solid Fuel.							
		How are these compounds extracted from coal?	(1.5)						
	(b)	How is steam cracking carried out?	(1.5)						
(ix)	Kolbe's Electrolytic Method is used to prepare Ethane from Potassium Acetate. Write its detailed								
	mech	anism.	(03)						
(x)	How will you synthesize the following compounds starting from Acetylene?								
	(a)	Acetaldehyde (b) Benzene (c) Chloroprene							
(xi)	Nitrat	ion is a substitution reaction in which NO_2 group is introduced into benzene ring. Write its							
	detailed mechanism.								
(xii)	How does Ethyl magnesium bromide react with the following compounds?								
	(a)	Water (b) Carbon dioxide (c) Acetaldehyde							
(xiii)	(a)	Ethanol is obtained from Molasses by Fermentation process. Write detailed reactions.	(02)						
	(b)	How is ethanol denatured?	(01)						
(xiv)	(a)	Explain the acidic behaviour of phenol.	(02)						
	(b)	How is picric acid prepared from phenol?	(01)						
(xv)	(a)	Define condensation reaction.	(01)						
	(b)	Differentiate Aldol condensation and Cannizzaro's reaction giving an example of each.							
	(2)	Draw the general structure of an Amino acid.	(01)						
(xvi)	(a)	Didw the general ended of any time dela.	• •						

	(XVII)	(a)	Differentiate Monosaccharides and Oligosaccharides, write one example from				
			each class.	(02)			
		(b)	What is denaturing of proteins?	(01)			
	(xviii)	(a)	Write about the reactions taking place in first 24 hours after mixing cement in water.	(02)			
		(b)	Why is Gypsum added to Clinkers?	(01)			
	(xix)	(a)	What is Reducing and Oxidizing Smog?	(01)			
		(b)	What are the necessary conditions for smog formation?	(02)			
			SECTION - C (Marks 26)				
Note:	A	ttempt	any TWO questions. All questions carry equal marks. (2 x	13 = 26)			
Q. 3	a. Sodium metal is prepared on commercial scale by Down's cell. Describe the construction						
		and w	orking of Down's cell with the help of a suitable diagram.	(06)			
	b.	Carbo	on dioxide is a gas while Silicon dioxide is a solid at room temperature. Give reason.	(03)			
	C.	How is	s nitric acid prepared by Birkland and Eyde's process?	(04)			
Q. 4	a.	How	can you differentiate between Primary, Secondary and Tertiary alcohols?	(04)			
	b.	Write	IUPAC name of the followings:	(03)			
		i)	COOH ii) $(C_6H_5)_3CH$ iii) B_7 C_7				
	C.	Comp	pare SN^1 and SN^2 reactions.	(06)			
Q. 5	a.	Wri <mark>te</mark> i)	chemical equation for the followings: Hydrolysis of Lipids ii) Saponification of Lipids iii) Hardening of oil	(03)			
	b.	Descr	ibe the manufacturing process of Urea with the help of flow sheet diagram.	(05)			
	C.	Write	note on:				
		i)	Acid Rain and its effects on environment.	(2.5)			
		ii)	Destruction of Ozone by CFCs.	(2.5)			

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