## CHEMISTRY Part-II Time: 20 Minutes Marks: 18 Multiple Choice Questions 01 Mark for each Paper Code Student Roll No. of the Student Serial No. Of the Answer Book

## **SECTION-A**

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1.4	u	E	с

1) Attempting all MCQs is compulsory. This paper along with the OMR sheet must be returned to the superintendent after due time.

2) Fill the circle ( ) ( ) ( ), which one is correct with blue or black ball point, in this sheet as well as in separate OMR Sheet like

3) If more than one circle in the OMR sheet is filled then no credit will be given to such answer.

-,	iore man one enere n	T the Olyme sheet	is timed their its eredis wi	00 8	n to bush unb it un		
I.i.	The measuremen	nt of the tende	ncy of an atom to attr	act elec	tron (s) or shared pa	air of e	lectrons towards it
	self is called				- ×		
	A Electro pos	itivity ®	Electro negativity	0	Shielding effect	0	Electron affinity
ii.	Which of the fol	lowing has gia	ant structure.				
	SiO₂	B	P <sub>4</sub> O <sub>10</sub>	0	$SO_2$	0	Sl <sub>2</sub> O <sub>7</sub>
iii.	The coordination	compound [0	CuCl <sub>4</sub> ] <sup>-2</sup> exists in shap	oe			¥
	Square plan		Rhombic	0	Tetrahedral	0	Octahedral
iv.	Acidified potass	ium acts as ag	ent .				9
	Oxidizing		Reducing	0	Bleaching	0	Coloured
v.	Pyridine belongs	to	compound.				
	Alicyclic		Hydrocarbons	0	Homocyclic	0	Hetrocyclic
vi.		11.61	ms to form chain & ri		30		3
	Carbonation		Catenation	©			Hydrogenation
vii.	In conjugated co	mpound the c	arbon atom			14.70	· -
			SP <sup>2</sup> -SP <sup>2</sup>			0	Sdp <sup>2</sup> -Sdp <sup>2</sup>
viii.			ited due to unequal di			V	MOTORIA INCOME.
	group						ACTION CONTRACTOR CONT
	Metamerisa		Tautamerism	0	Functional group position	(0)	Position isomerism
ix.	Tertiary alkyl ha	makes and the same of the same		====			6
	$\triangle$ $E^1$	(8)		©	SNI	(0)	SN <sup>2</sup>
х.		200	with formaldehyde gi		<b>311</b>	•	
	Primary alc		Secondary alcohol		Tertiary alcohol	(D)	Carboxylic acid
xi.	Isopropyl benzer		1,55		V		t ZT set Salet (Salet ) to T∎en Called Alet Child sale
****	Pyric acid		Nylon	0	Cumene	(D)	Phenol
xii.	AND CONTRACT OF STREET	TO 100 MI	to prepare	200		0	
	Aldehyde		Ketones	- ©	Ester	(0)	Ether
xiii	Con the Control of th		ldehyde towards nucl			0 000	THEOLOGICAL CONTRACTOR OF THE
******	Steric effect		Electronic effect	©	Resonance effect	_	Both A & B
xiv.		)) S	ed by the action of Gr				
	(A) Carbonatio		Dow process	©	Catenation	0	Williamson process
XV.			resence of alkali (Nat			500	
1. 7.	Saponificat	per terrorial	Decarboxylation	©		(D)	Transesterfication
xvi.	STATE TO STATE OF THE PARTY OF	turnets and a company	n has the structure kn	0.7-0.00		200	
24 7 2.	Primary	В		©	Tertiary		Quartanary
xvii.	Caracteristic St.		f hydrocarbons from		Literature and St.	0	Zaminami)
Avii.	Light Neph		Gasoline	©	Kerosine	 (©)	Disel oil
xviii.			rily caused by		TOTOBILO		2.001 011
AL TILL	O CO	mog is primar	CO.	—·	0	6	NO.

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SECTION "B"

Attempt any Ten Parts out of the following. Each Part carries equal marks.

## CHEMISTRY Part-II

Marks: 40

Note: Time allowed for section B and C is 2 hours and 40 minutes.

II.

	i.	Wh	at is bond enthalpy. Support your answer by explaining bond enthalpy in hydrogen halide.	
	ii ii	. Wh	y most of the compounds of transition metals are coloured?  ferentiate between homocyclic & hetrocyclic.	
	iv	Wr Wr	ite general mechanism of electrophilic aromatic substitution reaction.	
	v	. Wi	nat is carbocations? Also discuss their stability.	
	v	i. Wl	ny phenol is more acidic than alcohol.	
		ii. Ho	w aldehyde can be oxidized by Fehling's solution.	
	V		plain, why carboxylic acids do not undergo additions reactions as compared to	
	iv		ehyde. rite the role of Glucose in human body.	
	X	22/72	fferentiate between reactive & non-reactive adhesives.	
		i. Ex	plain depletion of ozone layer.	
			rite note on optical isomerism.	
	X	iii. Di	scuss Beer-Lambert's law.	
	ğ		SECTION "C" Marks: 27	
Note	: Atten	npt any T	Three questions of the following. Each question carries equal Marks.	
				4
	III.	(a)		5
		(b)	What are complex ions. Explain the shape of octahedral coordinated ions.	
	IV.	(a)	What are homologous series, Discuss at least three characteristics of homologous	5
			series. Document to the series of the series	
		(b)	Mention the reactions for the preparation of the following compounds from	4
		(0)	The state of the s	
			an alcohol.	
			i. Ethane ii. Ethyl acetate iii. Acetone iv. Formaldehyde	
	V.	(a)	Give IUPAC names to the following. 0	5
	į.		i. CH <sub>3</sub> -C≡C-CH(CH <sub>3</sub> ) <sub>2</sub> . ii. CH <sub>3</sub> -C (CH <sub>2</sub> ) <sub>2</sub> -CH <sub>3</sub> iii. CH <sub>3</sub> -CH-CHO	
			iv. CH <sub>3</sub> -CH-CHO v. CH <sub>2</sub> -CH <sub>3</sub> CH <sub>3</sub>	
			CH <sub>3</sub>	
	141		CH <sub>3</sub>	
		(b)	Write the structural formula for the following.	4
			i. Buta,1,4-dioic acid ii. 4-Methyl Pentanal iii. 2-Methyl-z-propano	ì
	5		iv. 1,3-Dimethyl benzene	
- M	VI.	(a)	Explain the role & nutritional importance of carbohydrates.	4
		(b)	What is green house effect. How is it causing global warming?	5
40				