

Name

1- ہر سوال کے سامنے چار دائرے دیے گئے این، صرف میجی جو اب والا دائرہ بھر دیں۔ 2۔ دائروں کوشیڈ (بھرنے) کے لئے فیلے پاکا لے رنگ کامار کر استعمال کریں۔

	- Roll No	)			į	ضور ہو گا۔	ے بھرنے سے جواب غلط	لا كرواكر	3۔جواب میں ایک سے ز
Time Allowed: 20 Minutes			SECTION - A						Marks: 18
1	Which of the given technique is/ used for determination of functional group in a compound?	•	IR	0	UV	0	NMR	<i></i>	Mass spectroscopy
2	Pollutants have adverse effect over	$\bigcirc$	Biosphere	0	Ecosystem	0	Hydrosphere	•	All these
3	Which is true for DDT? It is	0	Not a pollutant	0	An antibiotic	.0	An antiseptic	•	A non- degradable pollutant
4	Ethanol is produced from starch by the process of	0	Hydrolysis	$\bigcirc$	Hydrogenation	$\bigcirc$	Decomposition		Fermentation
5	Which of the given orders of relative strengths of acids is correct?	0	CI CH <sub>2</sub> COOH > FCH <sub>2</sub> COOH > BrCH <sub>2</sub> COOH	0	CI CH2 COOH > BrCH2 COOH > FCH2 COOH	0	BrCH <sub>2</sub> COOH > FCH <sub>2</sub> COOH > CICH <sub>2</sub> COOH	•	FCH <sub>2</sub> COOH > CI CH <sub>2</sub> COOH > BrCH <sub>2</sub> COOH
6	Clemmensen reduction is carried out with	0	LiAlH <sub>4</sub>		Zn-Hg and HCl	0	LiAlH4 and HCI	0	All these
7	Which of the given has highest solubility in water?	0	(CH <sub>3</sub> ) <sub>2</sub> CH OH	0	(CH <sub>3</sub> ) <sub>3</sub> C OH	•	C <sub>2</sub> H <sub>5</sub> OH	0	MeOH
8	The strongest reducing agent in these is	•	HI	0	HF	0	HBr	$\bigcirc$	All these
9	Aqueous KOH causes SN- reaction in alkylhalide. On which of the given alkylhalides KOH <sub>aq</sub> would like to attack easily?	0	ĈH₃–CH₂–CI	0	CH3-CH2-Br	•	CH <sub>3</sub> –CH <sub>2</sub> –F	0	CH <sub>3</sub> –CH <sub>2</sub> –I
10	Which of the given is more stable?	$\odot$	Cyclo Propane	$\bigcirc$	Cyclo Butane	0	Cyclo Репtапе	•	Cyclo Hexan
11	The order in the ease of dehydration of alcohol is	0	Tertiary > Secondary > Primary	0	Primary > Secondary > Tertiary	•	Secondary > Primary > Tertiary	0	Primary > Tertiary > Secondary
12	Which of the given is an organic compound?	0	- KCN	0	NH4OCN	0	CS <sub>2</sub>	•	None of thesc
13	Furan isorganic compound.	0	Homocyclic	0	Aromatic	•	Heterocyclic	0	Both B and C
14	Which of the given is diamagnetic ion?	0	Cu <sup>++</sup>	0	Mn⁺⁺	•	Sc+++	0	Co***
15	Which of the given ions exhibits colour in aqueous solution?	•	Ni <sup>2+</sup>	0	T 4+	0	Zn <sup>2+</sup>	0	Sc <sup>3+</sup>
16	Alkali metals have high oxidation potential and hence they behave as	0	Electrolytes	0	Lewis bases	, O	Oxidizing agents		Reducing agents
17	Which of the given has the lowest melting point?	0	Cs	0	К .	0	Na	•	Li ·
18	Lithium is the strongest reducing agent among alkali metals due to which of the given factors?	•	Ionization energy	<u></u>	Electron affinity	$\bigcirc$	Lattice energy	O	Hydration energy

## PR XII (01) 19 P-38c CHEMISTRY (New) Inter Part-II (Fresh/Reappear)

Time allowed for Section - B and Section - C is 2 Hours and 40 minutes. Note: Section - B Marks: 40 Q-II Answer any TEN parts, Each part carries FOUR marks. 1. Why fall in ionization energy occurs at Al and S in the same period? 🗸 2, Transition elements show variable oxidation states, why? 3. How coal can be converted into petroleum? 4. Why cyclopropane is more reactive than propane? \ 5. Why benzene is less reactive than ethane? 6. Ethyl alcohol is liquid while ethyl chloride is gas at room temperature, give reasons. 7. What is Lucas test? 8. What is silver mirror test? Carboxylic acids have high boiling points than corresponding alcohol, give reasons. 9, 10. Vegetable oil is sensitive to modify, give reasons, 11. How DDT reaches to animal ratty tissue? 12, Why acid rain is considered as threat to historical monument? 13. Explain the use of ionization chamber in mass spectrometers Section - C Marks: 27 Note: Attempt any THREE questions. All questions carry equal marks. Q-//I Explain the reaction of group II-A elements with oxygen. (a) What is meant by atmosphere, explain the importance of tropospheres. (d) Q-IV Explain the acidity of carboxylic acid. How their acid strength is affected by substitution? (a) Why O/P group activate the ring for further substitution? Explain. (b) Q-V (a) Give IUPAC names. Na<sub>2</sub> [Fe(NO) (CN)<sub>5</sub>] ii. ili. CH2 -- CH2 -- CH2  $CH_3 - CH_2 - CH_2 - CH_2 - CH()$ ÖН OH HOOC - (CH<sub>2</sub>)<sub>2</sub> - COOH ٧İ, O CH3~C-CI Draw structural formula for the given compounds. Potassium Hexachloroplatinate Ĭİ, 3 – Hexene – 1 – vne p-xylene ĺ٧, Methoxyethane hexane -2, 4 - dione ۷i. Acetamide Q-VI Discuss Bimolecular Elimination (E2) reaction in Alkyl Halides. Using Grignard reagent and appropriate aldehyde or ketone, how each of the following can be prepared?

1 – butanol

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Ethyl alcohol

iii.

2 - butanol