MRD-E/XI (A)

Chemistry Part-II

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Chemistry Part-II

	SE SE	CTION "A"	Martin 10
NOTE:Use	Time: 20 Min this sheet for this section. No ma	rks will be awarded	Marks: 18 for cutting, erasing or overwriting.
	the correct answer from the given		
(i).	Helium is present in group		
.,	(a) I (b). II (c). VIII		
(ii)	Down's cell electrolysis is used for extraction		
	(a). Na (b) Mg (c). Li	(d) Ca	
(iii).	Borax is an ore of		
	(a).Al (b). B (c). C	(d). None of the	se
(iv).	AIF ₃ compound is		
	(a) Covalent (b).Partly ionic (c).Ionic	(d). None of thes	e 📥
(v).	Na+ is isoelectronic with		
	(a). CI (b). F (c). K ⁺	(d). Mg+2	
(vi).	Thermite process is		
, ,	(a). Exothermic (b). Endothermic (c)	. Reversible (d). Nor	e of these
(vii).	Formula of laughing gas is		
	(a).NO (b). NO ₂		3
(viii).	Bleaching powder has a smell of		
		omine (d). Chlorine.	
(ix).	KMno ₄ is an	A Y	
	(a) Oil (b) Acid (c) Oxi	dizing agent (d) Es	ster
(x).	Hybrdization of carbon in Ethyne is		
	(a). Sp (b) Sp^2 (c) Sp^3	(d) Sp ³ cl ²	
(xi).	Which one is vicinal halide?		
	(a) CH_2 — CH_2 (b) (c)	CH ₃ —CH ₂ —cl (d) C (14
	cl cl	0113 0112 01 (u) 0 0	
(xii).	Meta directing group is	- (1) 011	
/ WN	(a) OH (b) NH_2 (c) – O	• •	
(xiii).	The number of tertiary carbon atoms in to	• •	
	(a) 4 (b) 3 (c) 1	(d) 2	
(xiv).	Ethylene undergoes		())
()	(a) Electrophilic addition (b) Nucleophilic	addition (c)Elimination re	action (d)None of these
(xv).	Carboxylic acid contains(1) II I I		
	(a) Hydroxyl & carboxyl group.(b) Hydro(d) Carboxyl & aldehydic group	ixyl group. (c) Carboxyl gr	oup
(xvi).	Important reactions of benzene are		
	(a) Nucleophilic substitution.(b) Electro(d) None of these.		ctrophilic addition
(xvii).	In the second substituent occupie	es	
	(a) Meta position (b) Ortho position (position
(xviii).	Reaction of Alcohol and Sodium produc	<u>-</u>	
	(a) Alkoxide (b) Aldehyde	(c) Ethene (d) E	Ethane

Chemistry Part-II

Time: Allowed: 2.40h Max. Marks: 67

SECTION "B"

Q2. Attempt any TEN questions. Each question carries equal marks.

- (i) How does Hydrogen differs from alkali metals?
- (ii) Why alkaline earth metals are hard compared to alkali metals?
- (iii) What is Aqua Regia? How it dissolves noble metals?
- (iv) How does modern periodic law differs from Mendleev's law?
- (v) Explain the chemical properties of Al? Give reactions.
- (vi) What are p-type and n-type semiconductors?
- (vii) Explain the anomalous behaviour of Nitrogen.
- (viii) What are Chelates? Give examples.
- (ix) How Acetylene is prepared on commercial scale?
- (x) Discuss the mechanism of the chlorination of Benzene.
- (xi) Explain the dehydrogenation of alcohols.
- (xii) Why phenol shows acidic behavior?
- (xiii) What are the uses of Formaldehydes?

SECTION "C"

Marks: 27

Marks: 40

Note: Attempt any THREE questions. Each question carries equal marks.

- Q3.(a) How acetic acid is prepared?
 - (b) Write a detail note on Enzymes.
- Q4.(a) Explain the preparation of bleaching powder by Hasenclever method.
 - (b) Write the chemical properties of bleaching powder.
- A5.(a) Explain the manufacturing of steel by Bessemer process.
 - (b) What is corrosion? Elaborate.
- Q6.(a) Write down the structural formulae of the following:
 - i. Acetaldehyde ii. Ethyl acetate iii. Toluene
 - iv. Methyl cyclohexane v. cyclohexadiene
 - (b) Give IUPAC names of the following:


