

RESOURCES FOR "HSC-II CHEMISTRY" ZUEB EXAMINATIONS 2021



PREFACE:

The ZUEB examination board acknowledges the serious problems encountered by the schools and colleges in smooth execution of the teaching and learning processes due to sudden and prolonged school closures during the covid-19 spread. The board also recognizes the health, psychological and financial issues encountered by students due to the spread of covid-19.

Considering all these problems and issues the ZUEB Board has developed these resources based on the condensed syllabus 2021 to facilitate students in learning the content through quality resource materials.

The schools and students could download these materials from www.zueb.pk to prepare their students for the high quality and standardized ZUEB examinations 2021.

The materials consist of examination syllabus with specific students learning outcomes per topic, Multiple Choice Questions (MCQs) to assess different thinking levels, Constructed Response Questions (CRQs) with possible answers, Extended Response Questions (ERQs) with possible answers and learning materials.

ACADEMIC UNIT ZUEB:

1: Multiple Choice Questions:

The Multiple-Choice Questions with a stem, correct answer and 3 distractors or plausible wrong answers format is designed to assess the content and thinking of students from; R (Remembering); U(Understanding) and A (Applying, Analyzing, Evaluating, Creating). The questions are also classified into three difficulty levels accordingly; D(DIFFICULT), M (MODERATE), E (EASY)

HOW TO ATTEMPT AN MCQ:

MCQ:

- EACH MCQ HAS FOUR OPTIONS, A, B, C AND D. SELECT ONE OPTION AS THE BEST ANSWER AND FILL IN THE CIRCLE OF THAT OPTION, FOLLOWING THE INSTRUCTIONS GIVEN BY THE INVIGILATOR.
- USE BLACK PEN/PENCIL TO FILL IN THE CIRCLE.

Correct Way	Wr	ong W	Vays
1	1	2	3
a	a	a	a
Ъ	b	b	Ъ
C	\otimes	©	\oslash
d	\bigcirc	\bigcirc	d

CHAPTER 01 PERIODIC CLASSIF 1. On moving from left to right across a period in the periodic table, the size of a (a) Decreases (b) Increase (c) Remains constant (d) Decrease up to IV A 2. The Ionization energy in a group from top to bottom with the increa (a) Decreases (b) Increase (c) Remains constant (d) None of these 3. The lowest ionization energies are found in the (a) Inert gases (b) Alkali metals (c) Transition elements 4. In the periodic table, the highest ionization energies are for (a) Halogens (b) Noble gases (c) Alkali metals 5. Elements in the same family (a) Have same atomic number (b) Have same molecular (c) Have similar chemical properties (d) Same Electronic confection of the same family (a) Smallest atomic size (b) Lowest ionization energies (b) Lowest ionization energies (c) Lowest ionization energies (d) Lowest ionization energies (e) Lowest ionization energies (e) Lowest ionization energies (e) Remains constant (d) Decrease up to IV A 2. The Ionization energy in a group from top to IV A 3. The lowest ionization energies (e) Remains constant (d) None of these 4. In the periodic table, the highest ionization energies are found in the (e) Have same molecular (e) Alkali metals (e) A	atom generally group and then increases ase in atomic size (d) Halogens (d) Alkaline earth metals ar weight figuration	1. 2. 3. 4. 5.	a a b	K/A K/A A
(a) Decreases (b) Increase (c) Remains constant (d) Decrease up to IV A 2. The Ionization energy in a group from top to bottom with the increa (a) Decreases (b) Increase (c) Remains constant (d) None of these 3. The lowest ionization energies are found in the (a) Inert gases (b) Alkali metals (c) Transition elements 4. In the periodic table, the highest ionization energies are for (a) Halogens (b) Noble gases (c) Alkali metals 5. Elements in the same family (a) Have same atomic number (b) Have same molecular (c) Have similar chemical properties (d) Same Electronic confe	group and then increases ase in atomic size (d) Halogens (d) Alkaline earth metals ar weight figuration	2. 3. 4.	a b	K/A A
2. The Ionization energy in a group from top to bottom with the increa (a) Decreases (b) Increase (c) Remains constant (d) None of these 3. The lowest ionization energies are found in the (a) Inert gases (b) Alkali metals (c) Transition elements 4. In the periodic table, the highest ionization energies are for (a) Halogens (b) Noble gases (c) Alkali metals 5. Elements in the same family (a) Have same atomic number (b) Have same molecular (c) Have similar chemical properties (d) Same Electronic confections 6. In a given period, the alkali metals have	(d) Halogens (d) Alkaline earth metals r weight figuration	2. 3. 4.	a b	K/A A
(a) Decreases (b) Increase (c) Remains constant (d) None of these 3. The lowest ionization energies are found in the (a) Inert gases (b) Alkali metals (c) Transition elements 4. In the periodic table, the highest ionization energies are for (a) Halogens (b) Noble gases (c) Alkali metals 5. Elements in the same family (a) Have same atomic number (b) Have same molecular (c) Have similar chemical properties (d) Same Electronic confidence in a given period, the alkali metals have	(d) Halogens (d) Alkaline earth metals r weight figuration	3. 4.	b	K/A A
3. The lowest ionization energies are found in the	(d) Alkaline earth metals	3. 4.	b	A
(a) Inert gases (b) Alkali metals (c) Transition elements 4. In the periodic table, the highest ionization energies are for (a) Halogens (b) Noble gases (c) Alkali metals 5. Elements in the same family (a) Have same atomic number (b) Have same molecular (c) Have similar chemical properties (d) Same Electronic confidence of the same properties (d) Same	(d) Alkaline earth metals	4.		
4. In the periodic table, the highest ionization energies are for	(d) Alkaline earth metals	4.		
(a) Halogens (b) Noble gases (c) Alkali metals 5. Elements in the same family (a) Have same atomic number (b) Have same molecular (c) Have similar chemical properties (d) Same Electronic confidence of the confidence of	r weight figuration		b	
5. Elements in the same family (a) Have same atomic number (b) Have same molecular (c) Have similar chemical properties (d) Same Electronic confidence of the family (b) Have same molecular (c) Have similar chemical properties (d) Same Electronic confidence of the family (b) Have same molecular (c) Have same molecular (d) Same Electronic confidence of the family (d) Have same molecular (e) Have same molecular (d) Same Electronic confidence of the family (d) Have same molecular (d) Same Electronic confidence of the family (d) Have same molecular (e) Have same molecular (d) Same Electronic confidence of the family (d) Have same molecular (e) Have same molecular (f) Have same for the first (f) Have same for	figuration		D	
(c) Have similar chemical properties (d) Same Electronic confession of the Alkali metals have	figuration	5.		A
6. In a given period, the alkali metals have			c	U
			_	
(a) Smallest atomic size		6.	b	\mathbf{A}
(c) Lowest density (d) Highest electron affin		7	1.	
7. On the following given elements atom has the highest ionization energy		7.	b	A
(a) Be (b) F (c) N (d) Na		8.	a	TZIA
8 is the most electronegative elements		٥.	a	K/A
(a) Fluorine (b) Iodine (c) Oxygen (d) Sodium		9.	a	K/A
9. Most of the known elements are	D. C.			13/73
	l) Gases	10.	b	\mathbf{A}
10. The electropositive elements form (a) Acidic oxides (b) Basic oxides (c) Neutral oxides (d)	l) None of these	4.4	_	
11. The electronegative elements form	,	11.	a	K/A
	I) None of these	12.	c	T.
12. The elements of group II A are called		14.	•	U
	l) Transition elements	13.	b	\mathbf{A}
13 ion has the largest radius				A.
(a) Al ⁺³ (b) Cl ⁻ (c) F (d) O ⁻² 14. The most electropositive element among the following element is:		14.	c	U
(a) Fe (b) Na (c) Cs (d) Pb		1-		
15. The repetition of properties after regular interval is called		15.	b	A
(a) Group trend (b) Periodicity (c) Both (d	l) None	16.	h	_
16. The longest period is and the shortest period is		10.	U	A
(a) First and sixth (b) Sixth and first (c) First and fifth (d) Fifth a		17.	c	\mathbf{U}
17. The elements that contain both metallic and non-metallic characteristics are c (a) Metals (b) Non-metals (c) Metalloids (d	l) All of these			
18 Period in modern periodic table is also known as incomplete period		18.	c	\mathbf{U}
(a) 5^{th} (b) 6^{th} (c) 7^{th} (d) 8^{th}		10	1.	
19. The only liquid metal Is		19.	D	A
(a) Br (b) Hg (c) Ti (d) Au		20.	h	_
20. Atomic number is discovered by in 1914		40.	U	A
(a) Mendeleev (b) Moseley (c) Newland (d) None		21.	a	K/A
21. The physical and chemical properties of elements change from to	along period			IX/A
(a) Metal to non- metal (b) Non-metal to m	netal	22.	a	K/A
(c) Metalloids to metals (d) None				
22. Elements of sub group 'A' are known as	4. (3) 411 6.4	23.	c	\mathbf{U}
(a) Representative elements (b) Main group elements (c) Typical element		24	•	
23. The group number indicates the total number of electrons in shell of (a) First (b) Any (c) Valence	(d) All of these	24.	C	U
24. Boron, silicon and astatine are	(u) All of these	25.	d	TZIA
(a) metals (b) Non metals (c) Metalloids (d) (Gases		u	K/A
25. In the alkali metal series, which one of the following is most reactive		26.	d	K/A
(a) Li (b) Na (c) K (d) Rb				-W/A
26. Atomic number of sulphur is '16' it belongs toperiod, group a	andblock of periodic	27.	b	A
table		20	_	
(a) 3^{rd} , V-A, p (b) 3^{rd} , IVA, s (c) 3^{rd} , VI-A, d (d) 3^{rd}	3 rd , VI-A, p	28.	c	\mathbf{U}
27. 5 th period of modern periodic table containselements.		29.	c	T.
(a) 8 (B) 18 (c) 32 (d) 48		47.	·	U
28. Chlorine has electrons in its valence shell. (a) Five (b) Six (c) Seven (d) I	Fight			
(a) Five (b) Six (c) Seven (d) I 29. VIII-B group consist ofvertical columns	Eight			
	Four			

puring the electrolysis of water hydrogen is a) anode (b) Cathode (c) Diode (d Induction of the content of the) None of these	Na	1. 2.	b	A	M
lydrogen may be readily prepared by the act of the property of the last of the	(c) Zn (d) N (b) Good reducing agents	Na		b	A	IVI
a) Fe (b) HCl onic hydrides are usually a) Liquids at room temperature c) Good electrical conductors in solid state the hydronium ion is a/an a) Ion with formula H ₂ O ⁺ b) Ion with the formula H ₃ O ⁺	(c) Zn (d) N (b) Good reducing agents	Na	2			
a) Liquids at room temperature b) Good electrical conductors in solid state the hydronium ion is a/an a) Ion with formula H ₂ O ⁺ b) Ion with the formula H ₃ O ⁺			L Z.	d	K/A	E
c) Good electrical conductors in solid state the hydronium ion is a/an						
a) Ion with formula H ₂ O ⁺ b) Ion with the formula H ₃ O ⁺			3.	b	A	M
o) Ion with the formula H ₃ O ⁺			4.	b	\mathbf{A}	M
c) Free radical rather than an ion				D		
d) Ion formed by removal of H ⁺ from a water n	nolecules		5.	b	A	M
The process of loss of oxygen from a substant	ce or addition of hydrogen is c		6.	b	\mathbf{A}	M
a) Oxidation (b) Reduction (c Iydrogen molecule consists of two atoms lin		None of these	0.			١.,
a) Ionic bond (b) Covalent bon		ing (d) None of these	7.	b	A	M
a) Hydrides compound (b) Binary compo	ound (c) Tertiary compou		8	a	K/A	\mathbf{E}
	-			и	T7 ()	_
aH is an example of			9.	a	K/A	E
	(c) Complex hydrides	(d) interstitial hydrides	10	9	K/A	E
a) H ion (b) OH ion	(c) H ⁺	(d) All of these				
Covalent hydrides exist in		# ## ##	11.	d	K/A	E
	(c) Gaseous state	(d) All of these	12	d	K/A	E
		(d) Interstitial hydrides				
tomic hydrogen is	(h) Iti th		13.	a	K/A	E
	Section 1 and 1 an	an molecular nydrogen	14	c	U	M
lydrogen forms salts like hydrides with the	elements of group(s)					
	(c) Both I-A & II-A	(d) None of these	15.	a	K/A	E
	(c) CaHa	(d) LiAIH.	16	9	K/A	\mathbf{E}
			10.	а		
a) More (b) Less	(c) Equal		17.	c	U	M
The property Till 1994 and 199		(d) II-A to VII-A	18	h	A	M
is a covalent hydride	Z X XVIII	(I) NI DII				
	(c) NH ₃	(d) NaBH ₄	19.	a	K/A	E
a) NH_3 (b) CuH_2	(c) H ₂ O	(d) HI	20	c	U	M
The procedure of the pr	(c) H ₂ S	(d) ReHa				
		(d) BCI ₂	21.	b	A	M
a) Alkali metals (b) Halogens	(c) Transition metals	(d) Reactive metals	22	9	K/A	\mathbf{E}
Services of the first	e vede dan variable i meditaran a standilah dadi erabada a arastan vi itana a sanda					
	466.000		23.	b	A	M
	The second secon	(d) Seven	24	h	A	M
a) Complete filled (b) Half filled	Control Contro	lectrons (d) None of these	27.	U		
	oecause, Hydrogen is a	gent while halogens are	25.	c	U	M
	idizing (c) Both reducing	(d) Both oxidizing	26	9	K/A	E
aline hydrides after reaction with acid and	alcohol form gas	1000-0000 mark or 11	40.	а		
n) Nitrogen (b) Oxygen Ivdrides of group VII-A are	(c) Hydrogen	(d) Chlorine	27.	d	K/A	E
a) Acidic (b) Basic	(c) Neutral	(d) Amphoteric	28	9	K/A	\mathbf{E}
	(10 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 × (17 ×	(d) Compley	40.	а		
		(a) Complex	29.	c	U	M
a) Reducing (b) Oxidizing	(c) Hydration	(d) All of these	20	a	K/A	E
	(c) Complex	(d) Polymeric	30.	u		
CuH ₂ is an example of	(c) complex	(a) i orymene	31.	b	A	M
a) Metallic b) Covalent	(c) Complex	(d) Borderline				
AND STATE OF THE PARTY OF THE P	and the second of the control of the	25 and the second control of the second cont				
	(b) Hydrides compound (b) Binary compound (c) Binary compound (c) Donic hydrides (d) Covalent hydrides (e) Covalent hydrides (e) Covalent hydrides (e) Covalent hydrides (f) Covalent hydrides (g) Covalent hydrides (g) Covalent hydrides (h) HCl	the hydrides formed by the transfer of electrons from electropositive meta of lonic hydrides (b) Covalent hydrides (c) Complex hydrides afth is an example of of the hydrides (c) Complex hydrides on the hydrides (c) Complex hydrides on the hydrides ionizes to produce on the hydrides ionizes to produce on the hydrides exist in ovalent hydrides exist in ovalent hydrides (b) Covalent hydrides (c) Gaseous state hydrides, which are non stoichimetric in nature are called on the hydrogen is on the hydrogen of the hydrogen of the hydrogen of the hydrides with the elements of group (s) on the hydrogen is on the hydrides with the elements of group (s) on the hydrogen of hydrogen is on the hydride on the hydrogen of hydrogen is on the hydride of hydrogen is on the hydride of hydrogen forms covalent hydride on the hydride of hydrogen is an example of saline hydride of hydrogen is an example of saline hydride of hydrogen with on hydrogen resemble alkali metals because in electrolysis both are liberated of hydrogen and alkali metals because in electrolysis both are liberated of hydrogen are some leakali metals contain electron in its valence of hydrogen resembles carbon because their outer most shells are of hydrogen hydrides after reaction with acid and alcohol form agents of the hydride ovalent hydrides after reaction with acid and alcohol form agents of hydrogen hydrides after reaction with acid and alcohol form agents of hydrogen hydrides after reaction with acid and alcohol form agents of hydrogen hydrides after reaction with acid and alcohol form agents of hydrogen hydrides after reaction with acid and alcohol form agents of hydrogen hydrides after reaction with acid and alcohol form agents of hydrogen hydrides of group VII-	Hydrides compound (b) Binary compound (c) Tertiary compound (d) None of these he hydrides formed by the transfer of electrons from electropositive metals to hydrogen are called: loinic hydrides (b) Covalent hydrides (c) Complex hydrides (d) Interstitial hydride loinic hydrides (d) Double hydrides (d) Interstitial hydrides (d) Interstitial hydrides (d) Interstitial hydrides (d) Double hydrides (d) Double hydrides (d) All of these (d) All of these (e) Gaseous state (d) All of these (e) Gaseous (e) (e)	8. b. divides compound (b) Binary compound (c) Tertiary compound (d) None of these he hydrides formed by the transfer of electrons from electropositive metals to hydrogen are called: 1) Ionic hydrides (b) Covalent hydrides (c) Complex hydrides (d) Interstitial hydrides (d) Interstitial hydrides (d) Interstitial hydrides (d) Ionic hydrides hydrides hydrides (d) Ionic hydrides hydrides hydrides (d) Ionic hydrides hydrides hydrides hydrides hydrides hydrides (d) Ionic hydrides hydr	Section Sect	Displates compound (b) Binary compound (c) Tertiary compound (d) None of these he hydrides formed by the transfer of electrons from electropositive metals to hydrogen are called:

CHAPTER 3	s-BLOCK ELEMENTS	1. b	A	I
1. Out of all the elements of group IA (a) Na (b) Cs (c) Rb	A, the highest atomic number is for (d) K	2. a	K/A]
2. Out of all the elements of group IA (a) Li (b) Na (c) Rb	A, the highest melting and boiling point is for (d) K	3. d	K/A	1
3. (a) K (b) Rb (c) Cs	as highest ionization potential. (d) Li	4. a	K/A	I
4. Out of all the elements of group IA (a) Li (b) Na (c) K	A, the highest heat of hydration is for (d) Rb	5. b	A	I
5of the following elements h				
6. Out of all the elements of group II.	A, the highest density at 20°C is for (c) Sr (d) Ba	6. d	K/A	I
	group II A, the highest atomic number is for	7. b	A	I
8. The alkali metals possesse		8. a	K/A	1
9. Out of all the elements of group II.	A, the highest heat of hydration is	9. a	K/A	1
(a) Be (b) Ba (c) Ca 10 of the elements has highest	t ionic radius	10. b	\mathbf{A}	I
(a) Be (b) Ba (c) Ca 11. Sodium is not observed in +2 oxida		11. b	A	I
(c) High Ionic radius	(b) High second ionization potential (d) High Electronegativity			
(a) NaOH (b) Na ₂ ClO ₃ (c) NaO		12. a	K/A	I
13. When NaCl is dissolved in water, t(a) Oxidized (b) Reduced (c) Hyd	An artist than the property of	13. d	K/A	I
14. The alkaline earth metals possess (a) 1 (b) 2 (c) 3	electron or electron in their outermost orbitals. (d) 4	14. b	A	I
(a) Ionic (b) Covalent (c) Non	n polar (d) Vander Waal's forces	15. b	A	I
16. In general alkali metals act as (a) Reducing agents	(b) Oxidizing agents	16. a	K/A	1
(c) Both oxidizing and reducing ager 17. In the alkali metal series o		17. d	K/A	1
(a) Li (b) Na (c) K 18. In the alkali metal series, cesium is	(d) Rb s the most reactive metal because			
(a) Its incomplete shell is nearest to r(b) Larger size and low ionization en		18. b	A	I
(c) it exerts considerable strong force(d) its heavier metal	e on the valence shell	19. d	K/A]
19doesn't belong to alkali me (a) Li (b) Na (c) Rb	etals (d) Ca	20. c	U	I
20. A anode is used in down's of (a) Titanium (b) Iron		21. b	A	I
21. When burnt in air, lithium forms (a)Normal (b) Peroxide (c) Supe		22. b	A	I
22. The chlorides of alkali metals and	alkaline earth metals are generally polar (d) Vander Waal's forces	23. b	\mathbf{A}	I
23. Sodium reacts vigorously with oxy (a) Sodium oxide (b) Sodium per	gen on heating to form		U	
	r, Hence due to its high reactivity with water, it's stored in	24. c		I
25. Sodium reacts vigorously with wat (a) Oxygen (b) Hydrogen		25. b	A	I
26. Sodium is powerfulagent (a) Reducing (b) Oxidizing	(c) Bleaching (d) All of these	26. b	A	I
27 is a stronger base (a) NaOH (b) KOH	(c) LiOH (d) HCl	27. b	A	ľ
28. The valence electronic configuration (a) 1s ² (b) 2s ²		28. c	U	I
29 and groups are incl	luded in s-block	29. c	\mathbf{U}	I
30. s-block of periodic table contains		30. b		
(a) Non metals only (b) Metals only 31. Sodium is extracted bypro	ocess		A	I
32. The common salt use in our food is	The state of the s	31. a	K/A	I
(a) Na ₂ CO ₃ (b) NaCl 33. Most abundant alkali metals are		32. b	A	I
	(c) Na & Cs (d) K & Cs acted from their ores byprocesses	33. b	A	I
(a) Thermal (b) Electrolysis	(c) Chemical (d) All of these	34. b	A	N

35. Reactions of s-block elements are _ (a) Very slow (b) Very fast	(c) Moderate (d) None of the	se	35. b	A	
is an example of super oxide (a) NaO (b) Na ₂ O ₂	(c) Na ₂ O (d) NaO ₂		36. d	K/A	
37. In down's process CaCl2 is added w	th NaCl in order to of NaCl		27 4	TZIA	
(a) Increase solubility	(b) Increases melting point		37. d	K/A	
(c) Decrease solubility 38. Chemical formula of Carnalite is	(d) Decreases melting point		38. b	\mathbf{A}	
	2.KCl.6H ₂ O (c) CaOCl ₂ (d) CaSO	O ₄ .1/2H ₂ O	30. 0	1.	
39. In Down's process sodium metal is o			39. a	K/A	
(a) Cathode (b) Anod 40. First I.P value is always tha		(d) None			
(a) Higher (b) Small		e	40. b	A	
CHAPTER 4	p-BLOCK ELEMENT	rs			
1. The valence shell electronic configur (a) ns ² ,np ⁶ (b) ns ² ,n		(d) N	1. c	TT	
(a) ns ² ,np ⁶ (b) ns ² ,n 2 groups are included in p-bl		(d) None		\mathbf{U}	
(a) 4 (b) 5	(c) 6	(d) 7	2. c	U	
3. p-block of periodic table contains	, a	40 10 	3. d	K/A	
(a) Non metals only (b) meta 4. Which of the following shows only o	min 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	only (d) All			
(a) Chlorine (b) Fluor		(d) Iodine	4. b	A	
5. The incorrect statement about H ₂ SC		***	5. d	K/A	
	icing agent (c) Highly viscous	(d) None of these	6. c	U	
6. Aqua regia is the mixture of (a) H ₂ O & H ₂ SO ₄ (b) HNO ₃ & H ₂ S	SO ₄ (c) HCl & HNO ₃	(d) HCl and H ₂ O		_	
7. Concentrated HNO ₃ practically no a		(u) HCI and H2O	7. d	K/A	
(a) Cu (b) C	(c) Zn	(d) Al	8. b	\mathbf{A}	
8. Process of refining of 'Al' is known		(4) C			
(a) Down's (b) Hoor 9. Formula of laughing gas is	pe's (c) Solvav's	(d) Contact		U	
(a) NH ₄ Cl (b) PbO	(c) N ₂ O	(d) NO ₂	10. a	K/A	
10. All of these contain aluminum excep		V. D. C.	11. b	A	
(a) Oleum (b) Dura lumin 11. The Cryolite is used in the electroly	(c) Potash alum	(d) Chrome alum			
		num (d) All of these	12. c	\mathbf{U}	
12. Chlorine is manufactured by	method(s)		13. d	K/A	
(a) Nelson's (b) Cast 13. Which of the following is not ore?	ner Kellner's (c) Both	(d) None	14. b		
(a) Bauxite (b) Rock	c salt (c) Pyrite	(d) Pig iron		A	
14. Alumniate is forms when aluminum	AND		15. c	\mathbf{U}	ļ
(a) Acid (b) Base 15is formed when ammonia ga	(c) Metal s dissolved in water	(d) Non-metal	16. c	U	
(a) HNO ₃ (b) NaC		(d) NH ₃	17. b		
16. Aluminum is extracted from purific				A	
(a) Thermal (b) Chemical 17. P-block contains elements	(c) Electrolytic	(d) None of these	18. d	K/A	
(a) 20 (b) 30	(c) 35	(d) 40	19. b	A	
18. In p-block elements are li		(4) 1			
(a) 30 (b) 20 19. In p-block elements are m	(c) 10	(d) 1	20. d	K/A	
(a) 30 (b) 20	(c) 10	(d) 1	21. a	K/A	
20. In p-block elements are g		(1) 0	22. c		
(a) 30 (b) 20 21 is not the member of group	(c) 10	(d) 9		U	
(a) B (b) In	(c) C	(d) Al	23. c	\mathbf{U}	
22. Baeyer's process is used for the pur		(4) M	24. c	\mathbf{U}	
(a) Alum stone (b) Cryc 23. Hall's process is used for the purific		(d) None of these			
(a) Alumina (b) Gyp	sum (c) Bauxite	(d) None of these	25. a	K/A	
24. The group IV-A of the periodic tabl	G0000 777-88	946	26. b	A	
(a) Three (b) Four	(c) Five	(d)	27. c		
25. In group IV-A the metallic characte	r down the group			U	
(a) Increases (b) Decr	0.07	(d) None of those	28. a	K/A	
26. Copper reacts with dilute nitric acid (a) Nitric oxide (b) Nitro	ogen peroxide (c) Nitrous oxide	(d) none of these	29. d	K/A	
27. Nitric acid is a strong	Sen perovide (c) Futuous oxide	(a) none of these			
(a) Reducing agent (b) blead	ching agent (c) Oxidizing agent	(d) None of these	30. d	K/A	
	of concentrated HNO ₃ and three volumes	s of concentrated HCl is			
called (a) Aqua regia (b) Meta	a stannic acid (c) Alum	(d) Sandhur			
29. Nitric acid is used in the manufactu	re of	Apriliana Abasatá motors			
(a) cellulose (b) Vari	The state of the s	(d) All of these			
30 element is the most abunda				•	

										1.
	ctrolysis of brine	produces					31.	a	K/A	
		(b) Hydrogen used for the production	(c) H ₂ S n of chlorine g			(d) Nitrogen	22		TZIA	
(a) l	Nelson's	(b) Contact, so		(c) Electrolysis of	of water		32.	a	K/A	
	lorine gas is Yellow	in color (b) Greenish ye	ellow	(c) Violet		(d) Blue	33.	b	A	
34. To l	kill bacterial, mo	lts of the drinking wat	ter is treated w	rith			24			
	Nitrogen lorine is used in tl	(b) Carbon dioxide he preparation of pois	(c) Chlo onous gases of	orine ' warfars, such a	(d) Hy as	drogen sulphide	34.	C	\mathbf{U}	
(a) ($COCl_2$	(b) H ₂ S	(c) HCl			(d) None of these	35.	a	K/A	
	osgene is the comi Carbon dioxide &	mon name of		sphoryle chloride	e		26	_		
(c) (Carbonyldichlorid	e	(d) Carl	bon tetrachloride			36.	C	U	
37. In g		st Electronegativity is (b) O	(37	(c) Pb		(d) Se	37.	b	A	
		the highest hydration	energy is				20			
(a) I 39.		(b) Cl ⁻ ving is most powerful		(c) I ⁻		(d) At	38.	a	K/A	
(a) I	F ₂	(b) Cl ₂		(c) Br ₂		(d) I ₂	39.	a	K/A	
40	- soluter burst relating restaults	ving exhibits the higher (b) Cl ₂	and the contract of the state o	y (c) Br ₂		(d) I ₂	40			
		along a period				(0) 12	40.	.b	.A	
1,331,531		(b) Increases of aluminum is	(c) Remain san		d) All of thes	e	41.	.b	.A	
(a) (Greater	(b) Less		(c) Same		(d) None of these			•71	
	ctron affinity Increases	from top to botto (b) Decreases	4571	(c) Remain same	a	(d) None of these	42.	.b	.A	
		ised in the purification				major impurity	43.	.b	.A	
		(b) SiO ₂ tal oxides involving al		(c) Both these	termed as	(d) None of these			•/1	
		(b) Hoop's pro		and the second of the second o		(d) None of these	44.	.b	.A	
	to-oxidation and HCl	reduction of chlorine p (b) HOCl		(c) Both of these		(d) None of these	45.	.c	.U	
1.04.0.04.0.00		type of reaction	1		-	(a) Frome of these			••	
(a) A	Addition	b) Substitution		(c) Oxidation		(d) A 11 of these	46.	.C	.U	
		<i>5,2400.</i>		(c) Oxidation		(d) All of these	47.		K/A	
				5.0	AFRITS	(d) All of these	47.	d	K/A	
	CHAPTER			OCK ELEM	MENTS	(d) All of these				
1. The	CHAPTER valence shell elec	5 tronic configuration o	d-BL f d-block elem	OCK ELEN			47.	d	K/A	
1. The	CHAPTER valence shell elec	tronic configuration o (b) ns²,(n-1)d¹0	d-BL	ent is	- n-1)d ¹ to ns ² ,		1.	d c b	K/A U A	
1. The (a) no (a) I	CHAPTER valence shell elec s², nd¹0 is called th	tronic configuration o (b) ns²,(n-1)d¹⁰ e protection process a (b) Tin plating	d-BL of d-block elem gainst corrosio	OCK ELEM	- n-1)d ¹ to ns ² ,		47.	d c	K/A U	
1. The (a) no (a) I	CHAPTER valence shell elec s², nd¹0 is called th Fixing ne of Ks[Fe(CN)6]	tronic configuration o (b) ns²,(n-1)d¹⁰ e protection process a (b) Tin plating	d-BL of d-block elem gainst corrosic	cock ELEN (c) ns²,(n on and poisonin (c) Silvering	n-1)d ¹ to ns ² ,	(n-1)d ¹⁰ (d) Steeling	1.	d c b	K/A U A	
1. The (a) no (a) P (c) P (c) P (c)	valence shell elec s², nd¹0 is called th Fixing to of Ks[Fe(CN)s] botassium hexacyar otassium hexacyar	tronic configuration o (b) ns²,(n-1)d¹0 e protection process a (b) Tin plating is no ironate (III) no ferrate (III)	d-BL of d-block elem gainst corrosic	cock ELEN (c) ns²,(n on and poisonin (c) Silvering	n-1)d ¹ to ns ² ,	(n-1)d ¹⁰ (d) Steeling	1. 2. 3.	d c b a b	K/A U A K/A A	
(a) Po (b) Po (c) Po (c) To (d) To	CHAPTER valence shell elec s², nd¹0 is called the Fixing the of Ks[Fe(CN)6] totassium hexacyat totassium hexacyat the of [Co(en)3]Cl³ richloro tris (ethyle	tronic configuration o (b) ns²,(n-1)d¹0 e protection process a (b) Tin plating is no ironate (III) no ferrate (III)	d-BL of d-block elem gainst corrosic	nent is (c) ns²,(n) (o) nand poisonin (c) Silvering (b) Potassium he (d) Tripotassium	n-1)d ¹ to ns ² , ng exacyanide for the an hexacyanide for the sacyanide for the sacyano fo	(n-1)d ¹⁰ (d) Steeling	47. 1. 2.	d c b a	K/A U A K/A	
1. The (a) ns (a) P. (c) P. (c) P. 3. Name (a) Tr (chlor	valence shell elects ² , nd ¹⁰ is called the Fixing of Ks[Fe(CN) ₆] obtassium hexacyan obtassium hexacyan et of [Co(en) ₈]Cl ₃ richloro tris (ethylaride	tronic configuration o (b) ns²,(n-1)d¹⁰ e protection process a (b) Tin plating is no ironate (III) no ferrate (III) is	d-BL of d-block elem gainst corrosio	cock ELEN is (c) ns²,(n on and poisonin (c) Silvering (b) Potassium he (d) Tripotassium (b) Tris (c)	ng exacyanide for a hexacyano i	(n-1)d ¹⁰ (d) Steeling errate (III) ron (III)	1. 2. 3.	c b a b	K/A U A K/A A	
(a) P(c) P(3) Name (a) Tr Chlor (c) Tr cobal	valence shell elects ² , nd ¹⁰ is called the Fixing to disassium hexacyar to tassium hexacyar to f [Co(en)s]Cls richloro tris (ethyloride ri(ethyloride)tate	tronic configuration o (b) ns²,(n-1)d¹0 e protection process a (b) Tin plating is no ironate (III) is enediamine) Cobalt (II e) cobalate (III) chloride	d-BL of d-block elem gainst corrosio	cock ELEN is (c) ns²,(n on and poisonin (c) Silvering (b) Potassium he (d) Tripotassium (b) Tris (c)	ng exacyanide for a hexacyano i	(n-1)d ¹⁰ (d) Steeling errate (III) erron (III)	1. 2. 3. 4. 5.	c b a b c d	K/A U A K/A A U K/A	
(a) I. The (a) no (a) P. (c) P. (3. Nam (a) Tr. Chlor (c) Tr. coball 4. Nam (a) To	valence shell elect s², nd¹0 is called the Fixing totassium hexacyan totassium hexacyan et af [Co(en) ₃]Cl ₃ richloro tris (ethyloride ri(ethylenediamine that et a quo chromium et a quo chr	tronic configuration o (b) ns²,(n-1)d¹⁰ e protection process a (b) Tin plating is no ironate (III) no ferrate (III) is enediamine) Cobalt (III e) cobalate (III) chloride is m (III)	d-BL of d-block elem gainst corrosio	cock ELEN cent is (c) ns²,(n on and poisonin (c) Silvering (b) Potassium he (d) Trisotassium (b) Tris (c) (d) Tris (c) (d) Tris (c)	exacyanide fe h hexacvano ethylenedian ethylenedian	(n-1)d ¹⁰ (d) Steeling errate (III) erron (III) nine) Cobalt (III) nine) tri chloro	1. 2. 3. 4.	d c b a b c	K/A U A K/A A U	
(a) I. The (a) no (a) P. (c) P. (b) The cobal 4. Nam. (a) To (c) To (c) To 5.	valence shell electors, nd¹0 is called the Fixing to the fixing the of Ks[Fe(CN)s] to the fixing the of [Co(en)s]Cls richloro tris (ethyloride ri(ethyloride tria aquo chromium etra aquo chromium etra aquo chromium etra aquo chromium form coloride	tronic configuration o (b) ns²,(n-1)d¹0 e protection process a (b) Tin plating is no ironate (III) is enediamine) Cobalt (II e) cobalate (III) chloride is m (III) m (III) Ion ess compound	d-BL f d-block elem gainst corrosio	c) ns²,(n (c) ns²,(n non and poisonin (c) Silvering (b) Potassium he (d) Tribotassium (b) Tris (c) (d) Tris (c) (d) Tetra aquo ch (d) Tetra (d) Tetra	exacyanide fe a hexacvano i ethylenedian	(n-1)d ¹⁰ (d) Steeling errate (III) erron (III) nine) Cobalt (III) nine) tri chloro	1. 2. 3. 4. 5.	c b a b c d	K/A U A K/A A U K/A	
(a) Is (a) P (b) P 3. Name (a) T (c) P 3. Name (a) T (c) T (c) T (d) T (e) T (e) T (f) T (f) T (g) T (g) T	valence shell electors, and to see the fixing is called the Fixing is called the Fixing is colorassium hexacyar to of [Co(en) ₃]Cl ₃ richloro tris (ethyleride ride the of [Cr(H ₂ O) ₄] ^{4,3} etra aquo chromium is aquo chromium is certa aquo chromium	tronic configuration o (b) ns²,(n-1)d¹0 e protection process a (b) Tin plating is no ironate (III) is enediamine) Cobalt (II e) cobalate (III) chloride is m (III) m (III) Ion ess compound (b) Ni	d-BL f d-block elem gainst corrosio	cock ELEN cent is (c) ns²,(n on and poisonin (c) Silvering (b) Potassium he (d) Trisotassium (b) Tris (c) (d) Tris (c) (d) Tris (c)	exacyanide fe h hexacvano ethylenedian ethylenedian	(n-1)d ¹⁰ (d) Steeling errate (III) erron (III) nine) Cobalt (III) nine) tri chloro	1. 2. 3. 4. 5. 6. 7.	c b a b c d a d	K/A U K/A K/A K/A K/A	
(a) Proceedings of the control of th	valence shell elect s², nd¹0 is called the Fixing to of Ks[Fe(CN)6] to tassium hexacvarate of [Co(en)3]Cl3 richloro tris (ethylerichloro tris (ethylerichloro) is ethylerichloro tris (ethylerichloro) is a ferroma of the state of the	tronic configuration o (b) ns²,(n-1)d¹0 e protection process a (b) Tin plating is no ironate (III) no ferrate (III) is enediamine) Cobalt (II e) cobalate (III) chloride is m (III) m (III) Ion ess compound (b) Ni gnetic (b) Sc	d-BL f d-block elem gainst corrosic	c) ns²,(n (c) ns²,(n non and poisonin (c) Silvering (b) Potassium he (d) Tribotassium (b) Tris (c) (d) Tris (c) (d) Tetra aquo ch (d) Tetra (d) Tetra	exacyanide fe h hexacvano ethylenedian ethylenedian	(n-1)d ¹⁰ (d) Steeling errate (III) erron (III) nine) Cobalt (III) nine) tri chloro	1. 2. 3. 4. 5. 6.	c b a b c d a	K/A U K/A U K/A K/A	
(a) I. The (a) no (a) P. (c) P. (a) T. (b) T. (c) T. (c) T. (c) T. (c) T. (d) C. (d) T. (e) T	valence shell electors, nd¹0 is called the Fixing is called the Fixing is of Ks[Fe(CN)6] Potassium hexacyar botassium hexacyar botassium hexacyar ide of [Co(en)s]Cls richloro tris (ethyleride tride tride tride aquo chromium form colorle tria is a ferroma in the fixed in the fi	tronic configuration o (b) ns²,(n-1)d¹⁰ e protection process a (b) Tin plating is no ironate (III) no ferrate (III) is enediamine) Cobalt (II e) cobalate (III) chloride is m (III) m (III) Ion ess compound (b) Ni egnetic	d-BL of d-block elem gainst corrosio	c) nert is (c) ns²,(n) (d) Tris (d) (e) Tetra aquo ch (d) Tetra (d) Tetra (e) Co (f) Paramagnetis	exacyanide for a hexacyanide for hexacyanide ethylenedian aromate (III) aquo chroma	(n-1)d ¹⁰ (d) Steeling errate (III) erron (III) nine) Cobalt (III) nine) tri chloro ate (III) ion (d) Zn	1. 2. 3. 4. 5. 6. 7.	c b a b c d a d	K/A U K/A K/A K/A K/A	
1. The (a) no (a) P (c) P (c) P (c) To (b) To (c) To (d) Lo (c) V.	valence shell electors, and to see the fixing to tassium hexacyan to tassium hexacyan to tassium hexacyan to tassium hexacyan to the fixing to the fixing to the fixing to the fixing the f	tronic configuration o (b) ns²,(n-1)d¹⁰ e protection process a (b) Tin plating is no ironate (III) no ferrate (III) is enediamine) Cobalt (II c) cobalate (III) chloride is m (III) m (III) Ion ess compound (b) Ni ignetic (b) Sc ion elements show coloridate ion (III)	d-BL of d-block elem gainst corrosio	c) ns²,(n (c) ns²,(n nand poisonin (c) Silvering (b) Potassium he (d) Tribotassium (b) Tris (c (d) Tris (c (d) Tetra aquo ch (d) Tetra a	exacyanide for a hexacyanide for hexacyanide ethylenedian aromate (III) aquo chroma	(n-1)d ¹⁰ (d) Steeling errate (III) erron (III) nine) Cobalt (III) nine) tri chloro ate (III) ion (d) Zn	1. 2. 3. 4. 5. 6. 7. 8. 9.	c b a b c d d b c	K/A U K/A K/A K/A U U U U U U U U U U U U U U U U U U U	
(a) I. The (a) no (a) Property (b) Property (c) Property (c) Property (c) Tropostal (a) Tropostal (a) Tropostal (a) Tropostal (a) Property (c) Tropostal (a) Property (c) Tropostal (a) Property (c) Pro	valence shell electors, and of second	tronic configuration o (b) ns²,(n-1)d¹⁰ e protection process a (b) Tin plating is no ironate (III) no ferrate (III) is enediamine) Cobalt (II c) cobalate (III) chloride is m (III) m (III) Ion ess compound (b) Ni ignetic (b) Sc ion elements show coloridate ion (III)	d-BL of d-block elem gainst corrosio () () () () () () () () () () () () ()	c) nert is (c) ns²,(n) (d) Tris (d) (e) Tetra aquo ch (d) Tetra (d) Tetra (e) Co (f) Paramagnetis	exacyanide for a hexacyanide for hexacyanide ethylenedian aromate (III) aquo chroma	(n-1)d ¹⁰ (d) Steeling errate (III) erron (III) nine) Cobalt (III) nine) tri chloro ate (III) ion (d) Zn	1. 2. 3. 4. 5. 6. 7. 8.	c b a b c d d b c	K/A U K/A K/A K/A K/A A A A A	
1. The (a) Is (a) P (c) P 3. Nam (a) T (c) T (c) T (c) T (d) C (e) T (e) T (f) T (f) T (g) T	valence shell elect s², nd¹0 is called the Fixing to tassium hexacyar cotassium hexacyar	tronic configuration o (b) ns²,(n-1)d¹⁰ e protection process a (b) Tin plating is no ironate (III) no ferrate (III) is enediamine) Cobalt (III e) cobalate (III) chloride is m (III) m (III) Ion ess compound (b) Ni gnetic (b) Sc ion elements show col ligand (b) Didentate (b) Inorganic salt	d-BL of d-block elem gainst corrosio	cock ELEN (c) ns²,(n (c) ns²,(n (d) ns²,(n (e) Silvering (f) Potassium he (g) Tris (f) (g) Tris (f) (g) Tetra aquo ch (g) Tetra (g) (h) Paramagnetis (h) Paramagnetis (h) Paramagnetis (h) Paramagnetis	exacyanide for a hexacyanide f	(n-1)d ¹⁰ (d) Steeling errate (III) erron (III) enine) Cobalt (III) enine) tri chloro ette (III) ion (d) Zn (d) Zn	1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	c b a b c d a d c	K/A U K/A K/A K/A U U U U U U U U U U U U U U U U U U U	
(a) I. The (a) no (a) Property (b) Property (c) Property (c) Property (c) Tropolar (a) Tropolar (a) Tropolar (a) Tropolar (a) Tropolar (a) Property	valence shell electors, and of the state of [Co(en)s] Classium hexacyar ot assium hexacyar ot a constitution of [Cr(H ₂ O) ₄] ^{1,3} or a constitution of the state of [Cr(H ₂ O) ₄] ^{1,3} or a ferroma of the state of the sta	tronic configuration o	d-BL of d-block elem gainst corrosic (i) (i) (ii) (iii) (ii	c) nert is (c) ns²,(n) (d) nert is (d) Tris (d) (e) Tetra aquo ch (f) Tetra aquo ch (g) Tridentate	exacyanide for hexacyanide for hexacyanide for hexacyanide for hexacyanide for hexacyanide ethylenedian ethylenedian aromate (III) aquo chroma	(n-1)d ¹⁰ (d) Steeling errate (III) erron (III) nine) Cobalt (III) nine) tri chloro ate (III) ion (d) Zn (d) Zn (d) Polydentate	1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	c b a b c d b c c c c	K/A U K/A A U K/A K/A K/A U U U U	
1. The (a) ns (a) P(c) P(c) P(c) T(c) T(c) T(c) T(c) T(c) T(c) T(c) T	valence shell electors, and of the state of [Co(en)s] Classium hexacyar ot assium hexacyar ot a constitution of [Cr(H ₂ O) ₄] ^{1,3} or a constitution of the state of [Cr(H ₂ O) ₄] ^{1,3} or a ferroma of the state of the sta	tronic configuration o	d-BL of d-block elem gainst corrosio () () () () () () () () () () () () ()	cock ELEN (c) ns²,(n (c) ns²,(n (d) ns²,(n (e) Silvering (b) Potassium he (d) Tris (c) (d) Tris (c) (d) Tetra aquo ch (d) Tetra (c) Co (e) Mn (b) Paramagnetis (d) Transition of (c) Tridentate (c) Tridentate	exacyanide for hexacyanide for	(n-1)d ¹⁰ (d) Steeling errate (III) erron (III) nine) Cobalt (III) nine) tri chloro ate (III) ion (d) Zn (d) Zn (d) Polydentate	1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	c b a b c d b c c c c	K/A U K/A K/A K/A U K/A U U U U	
1. The (a) ns (a) P (c) P 3. Name (a) Tr Chlor (c) Tr cobal 4. Name (a) Tr (c) Tc 5. (a) Cc (a) Cc (b) Com (a) La (c) V (c) V (c) Com (a) La (c) Com (a) Com (a) La (c) Com (a) La (c) Com (a) Com (a) Com (a) Com (a) Com (a) Com (a) Com (b) Com (c) Com	valence shell electors ² , nd ¹⁰ is called the Fixing the of K ₃ [Fe(CN) ₆] totassium hexacyarotassium hexacyarotasium hexacyarota	tronic configuration o	d-BL of d-block elem gainst corrosic (I) or due to (c) Tran entate ((c)	cock ELEN (c) ns²,(n (c) ns²,(n (d) ns²,(n (e) Silvering (b) Potassium he (d) Tris (c) (d) Tris (c) (e) Tria aquo ch (d) Tetra (e) Co (e) Mn (b) Paramagnetis (d) Transition of (e) Tridentate (c) Hexad (b) Covalent com (c) Hexad (d) Coordination	exacyanide for a hexacyanide f	(n-1)d ¹⁰ (d) Steeling errate (III) erron (III) nine) Cobalt (III) nine) tri chloro ate (III) ion (d) Zn (d) Zn (d) Polydentate	47. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	c b a b c d b c c c a	K/A U K/A A U K/A K/A A U U U U K/A	
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1. The (a) ns (a) P (c) P 3. Nam (a) T (c) T (c) T (c) T (d) C (d) C (e) T (a) C (e) T (a) C (f) C (f) C (g)	valence shell elect s ² , nd ¹⁰ is called the Fixing to assistim hexacyar consistiment of Ks[Fe(CN)6] otassium hexacyar consistiment of the consistency of [Cr(H ₂ O] ₄] ⁴³ etra aquo chromini etra aquo chromini etra aquo chromini tra aquo chromini arge size form colorle tra consistency of the c	tronic configuration or (b) ns²,(n-1)d¹0 e protection process are (b) Tin plating is no ironate (III) no ferrate (III) is enediamine) Cobalt (III) chloride is m (III) m (III) Ion ess compound (b) Ni ess compound (b) Sc ion elements show cold ignetic (b) Ediand (b) Didentate (b) Inorganic salt of (b) Tride inpounds are known as ids re located between in the process are considered to the process are considered	d-BL of d-block elem gainst corrosio (c) Tran entate (c) d & j ess of completi	c) CK ELEN (c) ns²,(n (d) ris (c) (d) Tris (c) (d) Tris (c) (d) Tetra aquo ch (d) Tetra (d) (e) Co (f) Paramagnetis (d) Tridentate sition metal com (c) Hexad (d) Covalent com (d) Coordination (d) Coordination (e) Hexad (f) Coordination (g) Hexad (g) Covalent com (g) Hexad (g) Coordination (g) Hexad (g) Dovalent com (g) Hexad (g) Coordination (g) Hexad (g) Dovalent com (g) Hexad	exacyanide fe in hexacyanide f	(n-1)d ¹⁰ (d) Steeling errate (III) error	47. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	c b a b c d b c c c a a	K/A U K/A A U K/A K/A A U U U U K/A	

16. Finally divided iron is used in (a) Haber process (b) Catalytic hydrogenation (c) Oxidation of ammonia to nitric oxide (d) Contact process (c) Oxidation of suphur divided to sulphur trioxide (d) Contact process (c) Oxidation of sulphur divide to sulphur trioxide (d) All of these (c) Oxidation of sulphur divide to sulphur trioxide (d) All of these (d) Contact process (e) Oxidation of ammonia to nitric oxide (d) Contact process (d) Contact process (e) Oxidation of ammonia to nitric oxide (d) Contact process (d) Contact process (e) Oxidation of ammonia to nitric oxide (d) Contact process (d) Contact process (d) Contact process (e) Oxidation of ammonia to nitric oxide (e) Oxidation of ammonia to nitric oxide (d) Contact process (d) Controllium (e) Oxidation of ammonia to nitric oxide (d) Contact process (d) Controllium (e) Oxidation of ammonia to nitric oxide (d) Contact process (d) Controllium (e) Oxidation of ammonia to nitric oxide (e) Oxidation of ammonia to nitric oxide (d) Contact process (d) Controllium (e) Oxidation of ammonia to nitric oxide (d) Contact process (d) Controllium (e) Oxidation of ammonia to nitric oxide (d) Contact process (d) Controllium (e) Oxidation of ammonia to nitric oxide (e) Oxidation of ammonia to nitric oxide (e) Oxidation of ammonia to nitric oxide (e) Oxidation of these (e) Paramagnetic (e) Diamagnetic (e) Diamagnetic (d) None of these (e) Paramagnetic (e) Diamagnetic (e) Diamagnetic (e) Diamagnetic (e) Diamagnetic (e) Diamagnetic (e) Diamagnetic (e) Paramagnetic (e) Diamagnetic (e) Diama	(a) Ca	following elements isn't included (b) Cu	(c) Cr	(d) Co			
(a) Hater process (c) Oxidation of ammonia to nitric oxide (d) Contact process (17. Vanadium pentaoxide is used in (a) Oxidation of sulphur dioxide to sulphur trioxide (b) Haber process (c) Oxidation of sulphur dioxide to sulphur trioxide (d) All of these (e) Oxidation of sulphur dioxide to sulphur trioxide (d) Oxidation of sulphur dioxide to sulphur trioxide (e) Oxidation of sulphur dioxide to sulphur trioxide (d) Oxidation of sulphur dioxide as cardays in (e) Oxidation of ammonia to nitric oxide (d) Oxidation of ammonia to nitric oxide (e) Oxidation of ammonia to nitric oxide (d) Oxidation of these (d) Oxidation or not the oxidation of these (e) Ligand (d) Oxidation or oxidate compound (d) Oxidation or oxidate compound (d) Oxidation or oxidate to oxida	16. Finally divided in				15. a	K/A]
17. Vamadium pentaoxide is used in (a) Oxidation of sulphur dioxide to sulphur trioxide (b) Haber process (c) Oxidation of ammonia to nitric oxide (d) All of these (e) Oxidation of ammonia to nitric oxide (d) All of these (e) Oxidation of ammonia to nitric oxide (f) Oxidation of ammonia to nitric oxide (g) Oxidation of ammonia to nitric oxide (h) Oxidation of ammonia to nitric oxide (h) Oxidation of ammonia to nitric oxide (g) Oxidation of ammonia to nitric oxide (h) Paramagnetic (c) Diamagnetic (d) None of these (e) None of these (f) Oxidation of the involvement of the d-electron in addition to the electron in add		mmonia to nitric oxide					
(c) Oxidation of ammonia to nitric oxide (d) All of these (d) Contact process (e) Oxidation of ammonia to nitric oxide (d) Contact process (e) Oxidation of ammonia to nitric oxide (d) Contact process (e) Oxidation of ammonia to nitric oxide (d) Contact process (e) Oxidation of ammonia to nitric oxide (d) Contact process (e) Oxidation of ammonia to nitric oxide (d) Contact process (d) Copper 19. c 19. c 20. b A 21. U 22. A substance which have even number of electrons and have paired spin is called (a) Magnets (b) Paramagnetic (c) Diamagnetic (d) None of these (a) Ferromagnetic (b) Paramagnetic (c) Diamagnetic (d) None of these (d) None of these 21. U 22. c U 23. Transition clements show variable valencies because of the involvement of the d-electron in addition to (a) Pelectron (b) Felectron (c) d-electron (d) Selectron (d) None of these (e) Valences spaces (f) Oxidation the compty spaces between atoms of transition metals in their crystal lattices are called (a) Vacant spaces (b) Valences spaces (c) Interstices (d) None of these 24. c U 25. Interstitial compound have formula (a) Definite (b) half (c) indefinite (c) Mene a number of molecule is formed (d) None of these (e) Interstitial compound (f) Diamagnetic (g) Actinides (g) Actin	17. Vanadium penta	oxide is used in	300	Control of the Contro	16. c	U	I
18. Platfumm or palladium is used as catalyst in			 Control of Children Street Control of Children Street 	ese	17. ล	K/A]
(c) Oxidation of ammonia to nitric oxide (d) Contact process 19	18. Platinum or palla						
19		mmonia to nitric oxide			18. b	A	I
20. Compounds attracted into a magnetic field are called (a) Magnets (b) Paramagnets (c) Diamagnets (d) None of these (a) Ferromagnetic (b) Paramagnetic (c) Diamagnetic (d) None of these 21. Transition elements show variable valencies because of the involvement of the d-electron in addition to (a) Ferromagnetic (b) Paramagnetic (c) Diamagnetic (d) None of these 23. Transition elements show variable valencies because of the involvement of the d-electron in addition to (a) Peelectron (b) Felectron (c) d-electron (d) s-electron (a) Peelectron (b) Felectron (c) d-electron (d) s-electron (a) Vacant spaces (b) Valences spaces (c) Interstices (d) None of these 24. The empty spaces between atoms of transition metals in their crystal lattices are called (a) Vacant spaces (b) Valences spaces (c) Interstices (d) None of these 25. Interstitial compound have formula (a) Definite (b) half (c) indefinite (d) No (a) Derinite (b) half (c) indefinite (d) None of these (a) a co-ordinate compound (d) None of these (b) Half (c) indefinite (d) None of these (a) a co-ordinate compound (d) None of these (a) a co-ordinate compound (d) None of these (a) Actinides (b) Lanthanides (c) Ligand (d) None of these (a) Actinides (b) Lanthanides (c) Ligand (d) None of these (a) Actinides (b) Lanthanides (c) Ligand (d) None of these (a) After (b) Before (b) Electron pair acceptors (c) neutral (a) Alfer (b) Before (b) Cationic (c) neutral (d) None of these (a) After (b) Eationic (b) Cationic (c) neutral (d) None of these (a) After (b) Eationic (c) None of these (a) Cation (b) Cationic (c) None of these (a) Cation (b) Lanar caustic (c) Surkh kahi (d) None of these (a) Cation (b) Lanar caustic (c) Surkh kahi (d) None of these (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these (a) Corresion (b) Froth floatation (c) Erosion (d) None of these (a) Corresion (b) Froth floatation (c) Erosion (d) None of these (b) Y (c) La (d) Regress (d) Hardness (d) Hardness (d) Hardness	19 of the	ollowing doesn't belong to d-bloc	ck elements	No. 6 (1915) (1915) (1915) (1915) (1915) (1915) (1915) (1915) (1915) (1915) (1915) (1915) (1915) (1915) (1915)	19. c	\mathbf{U}	1
22. A substance which have even number of electrons and have paired spin is called (a) Ferromagnetic (b) Paramagnetic (c) Diamagnetic (d) None of these 23. Transition elements show variable valencies because of the involvement of the d-electron in addition to 24. The empty spaces between atoms of transition metals in their crystal lattices are called (a) Vacant spaces (b) Valences spaces (c) Interstices (d) None of these 24. C 25. Interstitial compound have formula (a) Definite (b) half (c) indefinite (d) No (b) half (c) indefinite (d) None of these 26. When a number of molecules or regatively charged ions combine with a central d-block atom or ion to form complex ion or molecule is formed (a) a co-ordinate compound (b) Interstitial compound (c) Di-atomic compound (d) None of these 27. In coordinate bonding the molecules or ions, which bond on to the central metal ion or atom are called 28. Ligands are (a) Electron pair donor (b) Electron pair acceptors (c) neutral 29. In the system of naming complex coordinate compounds cations are name (a) After (b) Before (c) In between (d) None of these 31. H ₂ O is an example of ligand (a) anionic (b) Cationic (c) neutral (d) none of these 31. H ₂ O is an example of ligand (a) anionic (b) Cationic (c) neutral (d) None of these 31. H ₂ O is an example of (b) Eartonic (c) Cathode 33. Copper sulphate is commonly called (a) Bute vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 34. a Shorings a substance which permits it being drawn into wrie is called (a) Softines (b) Hardness 21. Transition elements show variable value in involved in the involvent of the deciron in addition to the central metal lon or atom are called 25. c U 26. a K/A 27. c U 27. c U 28. lies and K/A 30. c U 31. c U 32. b A 33. a K/A 34. a Shorings and the molecules or ions, which being a substance which is freely soluble in water. (a) Bute vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 35. Alloying of metals serves to inhibits (a) Corrosion (b) Froth floatation (c) Erosion (d				(d) Copper	20. 1		
22. c U (a) Fernomagnetic (b) Paramagnetic (c) Diamagnetic (d) None of these 23. Transition elements show variable valencies because of the involvement of the d-electron in addition to (a) p-electron (b) Felectron (c) d-electron (d) s-electron (a) Vacant spaces (b) Valences spaces (c) Interstices (d) None of these 24. c U 25. c U 26. a K/A 27. c U 28. Ligands are (a) Actinides (b) Lanthanides (c) Ligand (d) None of these 28. Ligands are (a) Electron pair donor (b) Electron pair acceptors (c) In between (d) None of these 29. b A 29. b A 29. b A 20. c U 21. The suntification of the see (c) In between (d) None of these 29. In the system of naming complex coordinate compounds cations are name anions (a) After (b) Before (c) In between (d) None of these 30. NH is an example of ligand (a) anionic (b) Cationic (c) neutral (a) Cation (b) anion (c) Cathode (a) Cation (b) anion (c) Cathode 30. C U 31. H ₂ O is an example of ligand (a) anionic (b) Cationic (c) neutral (a) Cation (b) anion (c) Cathode 31. H ₂ O is an example of ligand (a) Cation (b) anion (c) Cathode 31. Ligands is a blue crystalline solid which is freely soluble in water. (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 34. a K/A 35. Alloying of metals serves to inhibits (c) Surkh kahi (d) None of these 36. one of the following metals exists in liquid form (a) Sc (b) Froth floatation (c) Erosion (d) Hardness (d) Hardness 26. b U 27. c U 28. c U 29. b C U 29. b A 29. b A 29. b A 29. b A 20. c U 20. c U 20. c U 21. c U 22. c U 23. d K/A 24. c U 24. c U 25. c U 26. a K/A 27. c U 27. c U 28. a K/A 29. b A 20. c U 20. c C U 20. c C U 21. c U 21. c U 22. c U 23. d K/A 24. c U 25. c U 26. a K/A 27. c U 27. c U 28. a K/A 29. b A 20. c U 20. c C U 20. c C C C C C C C C C C C C C C C C C C	(a) Magnets	(b) Paramagnets	(c) Diamagnets	(d) None of these	20. b	A	1
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24. C (a) Vacant spaces (b) Valences spaces (c) Interstices (d) None of these (a) Definite (b) half (c) indefinite (d) No 25. C U 25. C U 26. When a number of molecules or negatively charged ions combine with a central d-block atom or ion to form complex ion or molecule is formed (d) None of these 27. In coordinate compound (d) None of these 27. In coordinate bonding the molecules or ions, which bond on to the central metal ion or atom are called (a) a co-ordinate bonding the molecules or ions, which bond on to the central metal ion or atom are called (a) Actinides (b) Lanthanides (c) Ligand (d) None of these 28. Ligands are (a) Electron pair donor (b) Electron pair acceptors (c) neutral (a) Electron pair donor (b) Before (c) In between (d) None of these 30. NHs is an example of ligand (a) anionic (b) Cationic (c) neutral (d) None of these 31. H ₂ O is an example of ligand (a) anionic (b) Cationic (c) neutral (d) none of these 32. The suffix 'ate' at the end of the name of the coordinate complex ion represents a/an (a) Cation (b) banion (c) Cathode (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 33. Copper sulphate is commonly called (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 34. a is a blue crystalline solid which is freely soluble in water. (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 35. Alloying of metals serves to inhibits (a) Corrosion (b) Froth floatation (c) Erosion (d) None of these 36. one of the following metals exists in liquid form (a) Sc (b) Proth grants it being drawn into wire is called (d) Hardness 37. The property of a substance which permits it being drawn into wire is called (d) Hardness	23. Transition eleme	nts show variable valencies becau	use of the involvement of t	he d-electron in addition to	22. C		1
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25. Interstitial compound have			100 ACC 100 AC	1970 State Control 1970 State Co	24. c	TI	1
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(c) Di-atomic compound (d) None of these 27. In coordinate bonding the molecules or ions, which bond on to the central metal ion or atom are called (a) Actinides (b) Lanthanides (c) Ligand (d) None of these 28. a K/A 29. b A 29. b A 29. b A 30. c U 30. NH ₃ is an example of ligand (a) anionic (b) Cationic (c) neutral (d) None of these 31. H ₂ O is an example of ligand (a) anionic (b) cationic (c) neutral (d) None of these 31. H ₂ O is an example of logand (a) Cation (b) anion (c) Cathode 31. c U 32. b A 33. a K/A 34. a 35. Alloying of metals serves to inhibits (a) Corrosion (b) Froth floatation (c) Erosion (d) None of these 36. a One of the following metals exists in liquid form (a) Sc (b) Ducrility (c) Stringers (d) Hardness (d) Hardness				oound	26. a	K/A	
(a) Actinides (b) Lanthanides (c) Ligand (d) None of these 28. Ligands are	(c) Di-atomic con	pound	(d) None of these				
28. Ligands are	27. In coordinate bo	nding the molecules or ions, whic	h bond on to the central n	netal ion or atom are called	27. c	U	
(a) Electron pair donor (b) Electron pair acceptors (c) neutral 29. In the system of naming complex coordinate compounds cations are name anions (a) After (b) Before (c) In between (d) None of these 30. NH ₃ is an example of ligand (a) anionic (b) Cationic (c) neutral (d) none of these 31. H ₂ O is an example of ligand (a) anionic (b) cationic (c) neutral (d) None of these 32. The suffix 'ate' at the end of the name of the coordinate complex ion represents a/an (a) Cation (b) anion (c) Cathode (d) none of these 33. Copper sulphate is commonly called (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 34 is a blue crystalline solid which is freely soluble in water. (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 35. Alloying of metals serves to inhibits (a) Corrosion (b) Froth floatation (c) Erosion (d) None of these 36 one of the following metals exists in liquid form (a) Sc (b) Y (c) La (d) Hg 37. The property of a substance which permits it being drawn into wire is called (a) Softness (b) Ductility (c) Brittleness (d) Hardness			(c) Ligand	(d) None of these	28. a	K/A	
(a) After (b) Before (c) In between (d) None of these 30. NH ₃ is an example ofligand (a) anionic (b) Cationic (c) neutral (d) none of these 31. H ₂ O is an example ofligand (a) anionic (b) Cationic (c) neutral (d) None of these 32. The suffix 'ate' at the end of the name of the coordinate complex ion represents a/an (a) Cation (b) anion (c) Cathode 33. Copper sulphate is commonly called (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 34 is a blue crystalline solid which is freely soluble in water. (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 35. Alloying of metals serves to inhibits (a) Corrosion (b) Froth floatation (c) Erosion (d) None of these 36 one of the following metals exists in liquid form (a) Sc (b) Y (c) La (d) Hg 37. The property of a substance which permits it being drawn into wire is called (c) Brittleness (d) Hardness	(a) Electron pair of	lonor (b) Electron pair accep			20 h	A .	1
30. NH ₃ is an example of ligand (a) anionic	29. In the system of	naming complex coordinate comp			29. U	A	
31. H ₂ O is an example of ligand (a) anionic (b) cationic (c) neutral (d) None of these 32. The suffix 'ate' at the end of the name of the coordinate complex ion represents a/an (d) anode 33. Copper sulphate is commonly called (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 34 is a blue crystalline solid which is freely soluble in water. (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 35. Alloying of metals serves to inhibits (a) Corrosion (b) Froth floatation (c) Erosion (d) None of these 36 one of the following metals exists in liquid form (a) Sc (b) Y (c) La (d) Hg 37. The property of a substance which permits it being drawn into wire is called (c) Brittleness (d) Hardness			(c) in between	(d) None of these	30. c	\mathbf{U}	
(a) anionic (b) cationic (c) neutral (d) None of these 32. The suffix 'ate' at the end of the name of the coordinate complex ion represents a/an (a) Cation (b) anion (c) Cathode 33. Copper sulphate is commonly called (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 34 is a blue crystalline solid which is freely soluble in water. (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 35. Alloying of metals serves to inhibits (a) Corrosion (b) Froth floatation (c) Erosion (d) None of these 36 one of the following metals exists in liquid form (a) Sc (b) Y (c) La (d) Hg 37. The property of a substance which permits it being drawn into wire is called (a) Softness (b) Ductility (c) Brittleness (d) Hardness			(c) neutral	(d) none of these	31 c	II	١,
(a) Cation (b) anion (c) Cathode (d) anode 33. Copper sulphate is commonly called	(a) anionic	(b) cationic					
(a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 34 is a blue crystalline solid which is freely soluble in water. (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 35. Alloying of metals serves to inhibits (a) Corrosion (b) Froth floatation (c) Erosion (d) None of these 36 one of the following metals exists in liquid form (a) Sc (b) Y (c) La (d) Hg 37. The property of a substance which permits it being drawn into wire is called (c) Brittleness (d) Hardness				and an extensive first free free free free free free free fre	32. b	A	
34 is a blue crystalline solid which is freely soluble in water. (a) Blue vitriol (b) Lunar caustic (c) Surkh kahi (d) None of these 35. Alloying of metals serves to inhibits (a) Corrosion (b) Froth floatation (c) Erosion (d) None of these 36 one of the following metals exists in liquid form (a) Sc (b) Y (c) La (d) Hg 37. The property of a substance which permits it being drawn into wire is called (a) Softness (b) Ductility (c) Brittleness (d) Hardness		The same of the sa	(a) Surkh kahi	(d) None of these	33. a	K/A]
35. Alloying of metals serves to inhibits	All the second of the second o	e crystalline solid which is freely	soluble in water.	(d) None of these	24	TZIA	١,
(a) Corrosion (b) Froth floatation (c) Erosion (d) None of these 36one of the following metals exists in liquid form (a) Sc (b) Y (c) La (d) Hg 37. The property of a substance which permits it being drawn into wire is called (a) Softness (b) Ductility (c) Brittleness (d) Hardness			(c) Surkh kahi	(d) None of these	34. a	K/A	
(a) Sc (b) Y (c) La (d) Hg 37. The property of a substance which permits it being drawn into wire is called	(a) Corrosion	(b) Froth floatation		(d) None of these	35. a	K/A]
(a) Softness (b) Ductility (c) Brittleness (d) Hardness	A S S S A A S S S S S S S S S S S S S S	and the same and to the control of the same and the same		(d) Hg	36 d	K/A	١,
(a) somes (b) Documy (c) Britishes (d) Hardness 37. b A				· 		IV/A	
	(a) Softliess	(b) Ductility	(c) Brittleness	(d) Hardness	37. b	A	

CHARTER 6 INTRODUCTION TO ORGANIC CHEMISTRY	1. a	K/A	E
CHAPTER 6 INTRODUCTION TO ORGANIC CHEMISTRY 1. The branch of chemistry which deals with the study of compounds containing carbon as a essential	2. b	\mathbf{A}	M
element is called: (a) Organic chemistry (b) Inorganic chemistry (c) Physical chemistry (d) All of these			
2. The first organic compound synthesized in the laboratory is	3. a	K/A	E
(a) Methane (b) Urea (c) Acetic acid (d) Glucose 3. Hard black form of coal containing 92-98% carbon is called	4. c	U	M
(a) Anthracite (b) Sub-bitluminuos coal (c) Bitluminuos coal (d) Lignite 4. A soft and brown form of coal which contains 50 to 60% carbon is called:	5. a	K/A	E
(a) Anthracite (b) Sub-bitluminuos coal (c) Bitluminuos coal (d) Lignite 5. Residue left after fractional distillation of coal tar is called	6. b	\mathbf{A}	\mathbf{M}
(a) Pitch (b) Dutch (c) Gangue (d) Matte			
6. Natural gas mainly consist of (a) methane (b) Ethane (c) Propane (d) Butanes	7. d	K/A	E
7. In Pakistan there are vast reserves of natural gas at in Baluchistan (a) Bandot (b) Khewra (c) Saindak (d) Sui	8. d	K/A	E
 is a mixture of methane, ethane, propane and butane, used as a fuel and for making other organic chemicals 	9. b	A	M
(a) Coal gas (b) Gasoline (c) Kerosene oil (d) Natural gas 9 in a mixture of hydrocarbons containing 5-8 carbon atoms and boiling in the range 40-180°C	10.	K/A	E
(a) Refinery gas (b) Gasoline (c) Kerosene oil (d) gas oil 10 is a mixture of hydrocarbons having 11-12 carbon atoms and boiling point in the range of	11. c	$ _{\mathbf{U}}$	\mathbf{M}
250°C (a) Diesel oil (b) Gasoline (c) Kerosene oil (d) Gas oil			
11. A large number of organic compounds, especially the unsaturated ones, show a great tendency to unite.	12. a	K/A	E
This process is termed as	13. b	A	M
12. An isomer of ethanol is	14. a	K/A	E
13. Organic compounds other than the hydrocarbons maybe considered to be derived from the hydrocarbons by the replacement of one or more of their atoms with atoms or group of atoms	15. b	A	M
of other element (a) Carbon (b) Hydrogen (c) Nitrogen (d) None of these	16. b	\mathbf{A}	\mathbf{M}
14. When ethylene is heated under pressure, a transparent solid polymer, is obtained. (a) Polyethene (b) Ethane (c) Methane (d) None of these			
15. An atom or group of atom which conifers characteristics properties to an organic molecule is called	17. a	K/A	E
(a) Radical (b) Functional group (c) Polymer (d) None of these 16. Compounds having same molecular formula but different structures are said to be	18. c	U	M
(a) Polymers (b) Isomers (c) Radical (d) Functional group	19. d	K/A	E
To Two or more than two different compounds having the same molecular formula but different carbon chains or skeletons are said to be	20. a	K/A	E
(a) Chain isomers (b) Position isomers (c) Functional group isomers (d) Metamers 18. Isomerism, which involves compounds having the same molecular formula, but different functional	21. c	U	\mathbf{M}
group are called (a) Chain isomers (b) Position isomers (c) Functional group isomers (d) Metamers	22. b	A	M
(a) Chain isomers (b) Position isomers (c) Functional group isomers (d) Metaniers 19 is exhibited by compounds having the same functional group but different alkyl attached to the same multivalent atom			
20. Iso butane exhibited	23. a	K/A	E
(a) Chain isomers (b) Position isomers (c) Functional group isomers (d) Metamers 21 of the following are isomers	24. a	K/A	E
(a) Methyl alcohol and Dimethyl ether (c) Acetone and Acetaldehyde (d) Proponoic acid and proponanone	25. b	A	M
22. The isomers must have the same	26. a	K/A	E
(a) Structural formula (b) Molecular formula (c) Chemical properties (d) Physical properties 23. In alkanes all C-C bonds have			
(a) Single bond (b) Double bond (c) Triple bond (d) None of these 24. Removal of one of the hydrogen atoms of an alkane produces a	27. b	A	M
(a) Alkyl group (b) ethyl group (c) Methyl group (d) None of these 25. Compounds in which two alkyl groups are attached to an oxygen atom are called	28. c	U	M
(a) Alkanes (b) ethers (c) Alcohols (d) Isomers 26 is the common name of methanal	29. d	K/A	E
(a) Formaldehyde (b) Acetaldehyde (c) Propionaldehyde (d) None of these 27. Compounds which contain two alkyl groups are attached to the carbon of carbonyl group are called	30b	.A	.M
(a) Ethers (b) Ketone (c) Alcohols (d) None of these	31.		
28. Benzene is a (a) Heterocyclic compound (b) Alicyclic compound (c) Aromatic compound (d) Acyclic compound			
29. The important sources of organic compounds are			
30. The molecular formula of a hydrocarbon is C_6H_{10} it is an			
(a) Alkane (b) Alkyne (c) Alkene (d) Aromatic compound 31. Pentane has isomers			
(a) Four (b) Three (c) Two (d) Five			

32	(a) C ₇ H ₁₂ 33is the formula		m m w	20 m.	32. b	\mathbf{A}	M
(a) CsH ₁₂ (b) C5H ₁₂ (c) CaH ₁₄ (d) CsH ₁₀ 34. *R' in organic chemistry stands for which radical? (a) Alkane (b) Alkyl (c) Aryl (d) Phenyl 35. Alkane exhibited isomerism (a) Position (b) Functional (c) Chain (d) Metamerism 36 compound show position isomerism (a) Benzene (b) Pentane (c) Propanol (d) Ethane 37. Successive members of a homologous series differ in their molecular weight by a value of a.m.u (a) 12 (b) 16 (c) 14 (d) 10 38. The first four saturated hydrocarbon are (a) Solid (b) Liquid (c) Gas (d) All 39. The ability of an element to bond itself with its own atoms is known as (a) Chemical bonding (b) Catenation (c) Attractive forces (d) All of these 40. 100 Kg of coal tar yield kg of benzene (a) 0.5 to 1 (b) 10 to 20 (c) 2.5 to 3.0 (d) 1.0 to 2.0 41. In latin petroleum means (a) Kerosene oil (b) Diesel oil (c) Rock oil (d) Gasoline 42. A carbon atom bonded to functional group and contain one hydrogen is: (a) 1° Carbon (b) 2° Carbon (c) 3° Carbon (d) None 43. Bakelite is an example of polymer (a) Condensation (b) Addition (c) Both of these (d) None of these 44 is a hexagonal ring of six carbon with three alternating double and single bonds (a) Cyclohexane (b) Cyclohexene (c) Cyclohexyne (d) Benzene 45. 2,2-dimethyl propane is also named as pentane				(d) All of these			141
34. 'R' in organic chemistry stands for which radical? (a) Alkane (b) Alkyl (c) Aryl (d) Phenyl 35. Alkane exhibited is ownerism (a) Position (b) Functional (c) Chain (d) Metamerism 35. c U M		entrance of the contract of th		(d) C ₆ H ₁₀	33. c	\mathbf{U}	M
35. Alkane exhibited isomerism (a) Position (b) Functional	34. 'R' in organic chemistr	ry stands for which radical?	Page 1		34. b	A	\mathbf{M}
36compound show position isomerism (a) Benzene (b) Pentane (c) Propanol (d) Ethane 37. Successive members of a homologous series differ in their molecular weight by a value of a.m.u (a) 12 (b) 16 (c) 14 (d) 10 38. The first four saturated hydrocarbon are (a) Solid (b) Liquid (c) Gas (d) All 39. The ability of an element to bond itself with its own atoms is known as (a) Chemical bonding (b) Catenation (c) Attractive forces (d) All of these 40. 100 Kg of coal tar yieldkg of benzene (a) 0.5 to 1 (b) 10 to 20 (c) 2.5 to 3.0 (d) 1.0 to 2.0 41. In latin petroleum means (a) Kerosene oil (b) Diesel oil (c) Rock oil (d) Gasoline 42. A carbon atom bonded to functional group and contain one hydrogen is: (a) 1° Carbon (b) 2° Carbon (c) 3° Carbon (d) None 43. Bakelite is an example ofpolymer (a) Condensation (b) Addition (c) Both of these (d) None of these 44 is a hexagonal ring of six carbon with three alternating double and single bonds (a) Cyclohexane (b) Cyclohexene (c) Cyclohexyne (d) Benzene 36. c U M 37. c U M 38. c U M 48. b M 49. b A M 40. a K/A E		isomerism	(c) Aryi	35.00 m			
(a) Benzene (b) Pentane (c) Propanol (d) Ethane 37. Successive members of a homologous series differ in their molecular weight by a value of a.m.u (a) 12 (b) 16 (c) 14 (d) 10 38. The first four saturated hydrocarbon are (a) Solid (b) Liquid (c) Gas (d) All 39. The ability of an element to bond itself with its own atoms is known as (a) Chemical bonding (b) Catenation (c) Attractive forces (d) All of these 40. 100 Kg of coal tar yieldkg of benzene (a) 0.5 to 1 (b) 10 to 20 (c) 2.5 to 3.0 (d) 1.0 to 2.0 41. In latin petroleum means (a) Kerosene oil (b) Diesel oil (c) Rock oil (d) Gasoline 42. A carbon atom bonded to functional group and contain one hydrogen is: (a) 1° Carbon (b) 2° Carbon (c) 3° Carbon (d) None 43. Bakelite is an example ofpolymer (a) Condensation (b) Addition (c) Both of these (d) None of these 44 is a hexagonal ring of six carbon with three alternating double and single bonds (a) Cyclohexane (b) Cyclohexene (c) Cyclohexyne (d) Benzene 45. 2,2-dimethyl propane is also named aspentane			(c) Chain	(d) Metamerism	35. c	U	IVI
37. c U M	(a) Benzene	(b) Pentane			36. c	U	M
(a) 12 (b) 16 (c) 14 (d) 10 38. The first four saturated hydrocarbon are (a) Solid (b) Liquid (c) Gas (d) All 39. The ability of an element to bond itself with its own atoms is known as (a) Chemical bonding (b) Catenation (c) Attractive forces (d) All of these 40. 100 Kg of coal tar yield kg of benzene (a) 0.5 to 1 (b) 10 to 20 (c) 2.5 to 3.0 (d) 1.0 to 2.0 41. In latin petroleum means (a) Kerosene oil (b) Diesel oil (c) Rock oil (d) Gasoline 42. A carbon atom bonded to functional group and contain one hydrogen is: (a) 1° Carbon (b) 2° Carbon (c) 3° Carbon (d) None 43. Bakelite is an example of polymer (a) Condensation (b) Addition (c) Both of these (d) None of these 44 is a hexagonal ring of six carbon with three alternating double and single bonds (a) Cyclohexane (b) Cyclohexene (c) Cyclohexyne (d) Benzene 45. 2,2-dimethyl propane is also named as pentane		a homologous series differ	in their molecular weight by	a value of	37. с	U	М
(a) Solid (b) Liquid (c) Gas (d) All 39. The ability of an element to bond itself with its own atoms is known as (a) Chemical bonding (b) Catenation (c) Attractive forces (d) All of these 40. 100 Kg of coal tar yield kg of benzene (a) 0.5 to 1 (b) 10 to 20 (c) 2.5 to 3.0 (d) 1.0 to 2.0 41. In latin petroleum means (a) Kerosene oil (b) Diesel oil (c) Rock oil (d) Gasoline 41. c U M 42. A carbon atom bonded to functional group and contain one hydrogen is: (a) 1° Carbon (b) 2° Carbon (c) 3° Carbon (d) None 43. Bakelite is an example of polymer (a) Condensation (b) Addition (c) Both of these (d) None of these 44 is a hexagonal ring of six carbon with three alternating double and single bonds (a) Cyclohexane (b) Cyclohexene (c) Cyclohexyne (d) Benzene 45. 2,2-dimethyl propane is also named as pentane				(d) 10			
(a) Chemical bonding (b) Catenation (c) Attractive forces (d) All of these 40. 100 Kg of coal tar yieldkg of benzene (a) 0.5 to 1 (b) 10 to 20 (c) 2.5 to 3.0 (d) 1.0 to 2.0 41. In latin petroleum means (a) Kerosene oil (b) Diesel oil (c) Rock oil (d) Gasoline 42. A carbon atom bonded to functional group and contain one hydrogen is: (a) 1° Carbon (b) 2° Carbon (c) 3° Carbon (d) None 43. Bakelite is an example of polymer (a) Condensation (b) Addition (c) Both of these (d) None of these 44 is a hexagonal ring of six carbon with three alternating double and single bonds (a) Cyclohexane (b) Cyclohexene (c) Cyclohexyne (d) Benzene 45. 2,2-dimethyl propane is also named as pentane	(a) Solid	(b) Liquid	(c) Gas	(d) All	38. c	U	M
(a) 0.5 to 1 (b) 10 to 20 (c) 2.5 to 3.0 (d) 1.0 to 2.0 41. In latin petroleum means (a) Kerosene oil (b) Diesel oil (c) Rock oil (d) Gasoline 42. A carbon atom bonded to functional group and contain one hydrogen is: (a) 1° Carbon (b) 2° Carbon (c) 3° Carbon (d) None 43. Bakelite is an example of polymer (a) Condensation (b) Addition (c) Both of these (d) None of these 44 is a hexagonal ring of six carbon with three alternating double and single bonds (a) Cyclohexane (b) Cyclohexene (c) Cyclohexyne (d) Benzene 45. 2,2-dimethyl propane is also named as pentane	(a) Chemical bonding	(b) Catenation		(d) All of these	39. b	A	M
41. In latin petroleum means (a) Kerosene oil (b) Diesel oil (c) Rock oil (d) Gasoline 42. A carbon atom bonded to functional group and contain one hydrogen is: (a) 1° Carbon (b) 2° Carbon (c) 3° Carbon (d) None 42. b 43. Bakelite is an example of polymer (a) Condensation (b) Addition (c) Both of these (d) None of these 44 is a hexagonal ring of six carbon with three alternating double and single bonds (a) Cyclohexane (b) Cyclohexene (c) Cyclohexyne (d) Benzene 45. 2,2-dimethyl propane is also named as pentane	470 mm		(c) 2.5 to 3.0	(d) 1.0 to 2.0	40. a	K/A	E
42. A carbon atom bonded to functional group and contain one hydrogen is: (a) 1° Carbon (b) 2° Carbon (c) 3° Carbon (d) None 42. b A M 43. Bakelite is an example of polymer (a) Condensation (b) Addition (c) Both of these (d) None of these 44 is a hexagonal ring of six carbon with three alternating double and single bonds (a) Cyclohexane (b) Cyclohexene (c) Cyclohexyne (d) Benzene 44d .E 45. 2,2-dimethyl propane is also named as pentane	41. In latin petroleum mean	ns					
43. Bakelite is an example ofpolymer (a) Condensation (b) Addition (c) Both of these (d) None of these 44 is a hexagonal ring of six carbon with three alternating double and single bonds (a) Cyclohexane (b) Cyclohexene (c) Cyclohexyne (d) Benzene 45. 2,2-dimethyl propane is also named aspentane				(d) Gasonne	41. c	U	M
(a) Condensation (b) Addition (c) Both of these (d) None of these 43a 44 is a hexagonal ring of six carbon with three alternating double and single bonds (a) Cyclohexane (b) Cyclohexene (c) Cyclohexyne (d) Benzene 45. 2,2-dimethyl propane is also named as pentane			(c) 3° Carbon	(d) None	42. b	A	M
44 is a hexagonal ring of six carbon with three alternating double and single bonds (a) Cyclohexane (b) Cyclohexene (c) Cyclohexyne (d) Benzene 45. 2,2-dimethyl propane is also named as pentane 44d **LETA** **LETA**			(c) Both of these	(d) None of these	13 0	TZ/A	F
45. 2,2-dimethyl propane is also named aspentane	44 is a hexagona	al ring of six carbon with th	ree alternating double and si	ngle bonds			
(a) Normal (b) Iso (c) Neo (d) Tertiary 45. c U M				(d) Benzene	44d	.K/A	.E
				(d) Tertiary	45. c	IJ	М

	6 0	ALION HALID				
	CHAPTER 8	ALKYL HALID	ES			
1.	Monohalo derivatives of alkanes are called	Alkyl halide	(d) None of these	1. c	U	M
2.	(a) Acyl halide (b) Aryl halide (c) A The general formula of alkyl halides is	Aikyi nande	(d) None of these			
,	(a) $C_nH_{2n+1}X$ (b) $C_nH_{n+1}X$ When an alkene is treated with halogen acids,	(c) C _{2n} H _{2n+1} X	(d) None of these	2. b	A	\mathbf{M}
3.	(a) Alkyl halide (b) Acyl halide	(c) Carbonyl chlor	ide (d) All of these	3. a	K/A	E
5.	If ethene is treated with HBr then			4	11/11	-
	(a) Ethyl bromide is formed	100 March 100 Ma	bromide is formed	4.		
6.	(c) Bromine is evolved When metallic sodium in ether is heated with an alky		en is obtained canes is formed, it's called	5. a	K/A	\mathbf{E}
	 -			6. b	\mathbf{A}	\mathbf{M}
7.	(a) Sulphonation (b) Wurtz reaction Dehydrohalogenation of alkyl halide is carried in the	(c) Friedel-craft re				
	(a) NaOH (b) KOH	(c) Ca(OH) ₂	(d) None of these	7. b	A	M
8.	Grignard's reagent when reacts with ammonia then (a) Alkane is formed	(b) Alkene	is formed	8. a	K/A	E
	(c) Nitrogen is evolved		ium is separated	9. a		
9.	Grignard reagent reacts with alkyl halide to form		(d) Alcohols		K/A	E
10.	(a) Alkaline (b) Alkyne Grignard's reagents are	(c) Alkenes	(d) Alcohols	10. b	A	\mathbf{M}
	(a) Alkyl halide (b) Alkyl magnesium halide (c) A		(d) None of these	11. d	K/A	E
11.	On passing CO ₂ through Grignard reagentis (a) Methanoic acid (b) Ethanoic acid (c) H	Propanoic acid	(d) No reaction occurs			
12.	On adding formaldehyde to Grignard's reagent	is formed		12a	.K/A	. E
13	(a) Primary alcohol The hydrolysis of alkyl halides by heating with aque	Politica angles (PP)	(d) Acetone substitution reaction	13b	.A	.M
	(a) Electrophile (b) Nucleophile (c) I	Electrophile or nucleop	ohile (d) None of these	14. c	U	M
14.	A reaction in which an atom or group of atom replace (a) Nitration (b) Halogenation (c) S	ces an atom or group Substitution	of atom is called (d) Sulphonation		_	
15.	is a Nucleophile		(a) surphonation	15. d	K/A	\mathbf{E}
	(a) OH (b) CN (c) N General formula of Grignard's reagent is	NH_3	(d) All of these	16. a	K/A	\mathbf{E}
10.	(a)R-Mg-X (b) R-Al-X	(c) R-Na-X	(d) R-Cl-X	17. b		
17.	is prepared by heating methyl iodide with fre	the state of the s			A	M
18.	(a) Grignard's reagent (b) Mustard gas When Grignard's reagent is hydrolyzed with water,	(c) Benzene It's converted in to	(d) None of these	18. c	U	\mathbf{M}
	(a) Alkynes (b) Alkenes	(c) Alkane	(d) Acetone	19. d	K/A	E
19.	Ethyl chloride reacts with alcoholic KOH to give (a) C ₂ H ₅ OH (b) C ₂ H ₆	(c) C ₂ H ₂	(d) C ₂ H ₄			
20.	Grignard's reagent reacts with CO ₂ to form	(C) C2112	(d) C2114	20. b	A	M
21	(a) HCl (b) Carboxylic acid Grignard's reagent reacts with acetaldehyde to form	(c) Acetic acid	(d) Carbonic acid	21. b	\mathbf{A}	\mathbf{M}
21.	(a) Primary alcohol (b) Secondary alcohol	(c) Tertiary alcoho	l (d) All of these	22. d		
22.	In carbonium ion carbon atom hascharge	7.5.NT	(IV Desire)		K/A	\mathbf{E}
23.	(a) No (b) Double positive What reagent is used in the dehydrohalogention of a	(c) Negative n alkyl halide to obta	(d) Positive iin an alkane	23. c	U	M
	(a) Sodium in liquid molecules		borohydride	24. a	K/A	\mathbf{E}
24.	(c) Alcoholic potassium hydroxide What is the formula of vinyl bromide	(d) Concen	trated H ₂ SO ₄	25		
	(a) CH ₂ =CHBr (b) CH ₃ —CH=CHBr	(c) CH ₂ =CH ₂ Br	(d) All of these		K/A	M
25.	A Grignard's reagent can be prepared by reacting '! (a) Ether (b) Ethyl amine (c) H		(d) Ammonia	26b	.A	.M
26.	The most stable carbonium ion is		(-)	27. a	K/A	E
	(a) R ⁺ CH ₂ (b) ⁺ CH ₃	(c) R ₂ +CH	(d) R ₃ C ⁺			
	Which solvent is favorable to SN ₂ reaction? (a) Ether (b) Water	(c) Alcohol	(d) All of these	28. b	A	M
28.	Alkyl Halides easily undergo			29. a	K/A	E
	(a) Addition reaction (b) SN reactions 3° Alkyl halide undergo SN reaction by	(c) Oxidation reacti	ions (d) All of these	30. d		
	(a) SN ₁ mechanism (b) SN ₂ mechanism	(c) Both	(d) None of these		K/A	\mathbf{E}
80.	can behave as nucleophile (a) H ₂ O (b) NH ₃ (c) O	OH-	(d) All of these	31. b	A	M
31.	R ₂ CH-X is an example of alkyl halide			32. c	\mathbf{U}	M
	(a) 1° (b) 2° Nucleophile is a:	(c) 3°	(d) None			
	(a) Positive specie (b) Nucleus attracting group	p (c) Electron attracti	ng group (d) Lewis acid	33. b	A	M
33.	Carbon in the Grignard's reagent behave as:	T		34. b	\mathbf{A}	\mathbf{M}
	(a) Electrophile (b) Nucleophile If Rate = K[R—X] {Base}, than the mechanism of real	(c) Lewis acid	(d) All of these	35. c		
	(a) E_1 (b) E_2	(c) SN ₁	(d) SN ₂		U	M
	R-CO-R reacts with R-Mg-X to produce: (a) Primary alcohol (b) Ketone	(c) Tertiary alcohol	(d) Aldehyde	36. c	\mathbf{U}	\mathbf{M}
	Secondary alcohol is prepared by Grignard's reagen	t when it reacts with:	Signature Control of the Control of	37. d	K/A	E
17.	(a) Formic acid (b) Alcohol The most suitable solvent for E ₁ reaction is	(c) Aldehyd	le (d) Ketone			
	(a) H ₂ SO ₄ (b) Ether	(c) Alcohol	(d) Water	38c	.U	.M
	When ethyl magnesium iodide is react with methyl ar	contract decides administrative accommon		39b	.A	.M
	(a) Ethane (b) Ethane Secondary alkyl halide undergo E ² mechanism when	(c) Propane solvent	(d) Methane	40b		
	(a) Polar (b) Non-Polar	(c) Neutral	(d) All		.A	.M
ŧ0.	When Grignard's reagent reactant with alkyl halide (a) Primary alcohol (b) Alkane	(c) Primary amine	(d) None of these	41. d	K/A	\mathbf{E}
	If Rate α {R—X} [Nu] then reaction is	20-12 1200 :				
	(a) E ₁ (b) E ₂	(c) SN ₁	(d) SN ₂	I		1

	CARBON COMPOUNDS WI	TH OXYGEN				
	CHAPTER 9 CONTAINING FUNCTIONA					
1.	Vinyl alcohol is:					
		d (d) A saturated compound	1.	c	\mathbf{U}	\mathbf{M}
2.	When H ₂ SO ₄ is react with excess of ethyl alcoholis formed	(4) Ed. 11	2.	b	A	M
3.	(a) Ethene (b) Diethyl ether (c) Acetylene The general formula of monohydric alcohol is:	(d) Ethyl hydrogen sulphate		D		
	(a) $C_nH_{2n+1}OH$ (b) $C_nH_{2n-2}OH$ (c) $C_nH_{2n+2}OH$	(d) C _n H _{2n} OH	3.	a	K/A	E
4.	2° alcohol is formed when Grignard's reagent reacts with: (a) Formaldehyde (b) Acetone (c) Ethyl alcohol	(d) Acetaldehyde	4.	d	K/A	\mathbf{E}
5.	(a) Formaldehvde (b) Acetone (c) Ethvl alcohol Oxidation of methyl alcohol finally produce	(d) Acetaidenvde	5.	b	A	\mathbf{M}
	(a) Formaldehyde (b) Formic acid (c) Acetic acid	(d) none of these				
6.	Ethyl alcohol is prepared by the fermentation of	(4) N	6.	c	U	M
7.	(a) Starch (b) Molasses (c) Both of these Oxidation of secondary alcohol produce	(d) None of these	7.	a	K/A	\mathbf{E}
	(a) Carboxylic acid (b) Aldehyde (c) Acid Halide	(d) Amide	8.	c	U	\mathbf{M}
8.	1,2-diol are commonly known as (a) Glycerol (b) Glycerin (c) Glycol	(d) All of these		C		
9.	Boiling points of alcohol is more than alkane due to:	(d) All of these	9.	c	U	M
	(a) Greater solubility (b) Strong covalent bond (c) Hydrogen bonding	(d) Strong pi-bond	10.	c	U	\mathbf{M}
10.	Conversion of ethyl alcohol into acetaldehyde in presence of acidified K ₂ Cr (a) Reduction (b) Combination (c) Oxidation	(d) Combustion	11.	a	K/A	E
11.	Which of the following act as dehydrating agent	(=) Combastion	-		-	
12	(a) H ₂ SO ₄ (b) Al ₂ O ₃ (c) H ₃ PO ₄	(d) All of these	12.	.c	.U	.M
12.	Fermentation of starch to ethyl alcohol doesn't require (a) Diastase (b) Zymase (c) Invertase	(d) Maltase	13.	.b	.A	.M
13.	Aldehydes are represented by suffix		14.		U	M
14	(a) -ol (b) -al (c) -one Aldehyde and ketone tend to undergo	(d) -oic acid				
14.	(a) Nucleophilic substitution (b) Electrophilic add	ition	15.	c	U	M
	(c) Nucleophilic addition (d) Electrophilic sub-	stitution	16.	b	A	M
15.	give positive tollen's test (a) CH ₃ COOH (b) CH ₃ COCH ₃ (c) CH ₃ CHO	(d) CH ₃ COOCH ₃	17.	b	A	M
16.	Aldehyde can be prepared by the oxidation of	\- \cos_3\cos_2\sigma_3	-			
17	(a) Ketone (b) Alcohol (c) Carboxylic acid	(d) Phenol	18.	d	K/A	\mathbf{E}
17.	Which of the following undergo Aldol condensation (a) Benzaldehyde (b) Formaldehyde (c) Acetaldehyde	(d) All of these	19.	C	U	\mathbf{M}
18.	Which of the following undergo Cannizaro's reaction	(-,		_	U	M
10	(a) Acetone (b) Acetaldehyde (c) Benzoic acid In cannizaro's reaction:	(d) Formaldehyde		c	U	
17.		verted into carboxylic acid	21.	b	A	M
	(c) Aldehyde is converted in alcohol & carboxylic acid (d) Ketone is converted	ted into Aldehyde	22.	c	U	\mathbf{M}
20.	Tollen's reagent is (a) Ammonical cuprous chloride (c) Ammonical KMnO ₄			.1		E
	(c) Ammonical silver nitrate (d) None of these		23.	u	K/A	
21.	Formaldehyde is made from methyl alcohol by (a) Dehydrotion (b) Dehydrogenetion (c) Dehydrohologene	ation (d) All of these	24.	c	U	M
22.	(a) Dehydration (b) Dehydrogenation (c) Dehydrohalogena Formula of iodoform is	ation (d) All of these	25.	.c	.U	.M
	(a) CH ₃ I (b) CH ₂ I ₃ (c) CHI ₃	(d) CH_2I_2			.U	.M
23.	Which of the following compound undergo addition reaction (a) CH ₃ —CH ₃ (b) C ₂ H ₅ OH (c) CH ₃ —O—CH ₃	(d) CH₃CHO	26.		_	
24.	When Aldehyde react with Fehling's reagent, red ppt of is formed	(a) Chischio	27.	b	A	M
25	(a) Sodium chloride (b) Cuprous chloride (c) Cuprous oxide	(d) Cupric oxide	28.	c	U	M
45.	Which of the following is completely soluble in water? (a) Ether (b) Benzene (c) Ethanol	(d) Ethane	29.		K/A	E
26.	Aldehyde may be distinguished from ketone by the use of:			u		
	(a) Sulphuric acid (b) Phenol (c) Fehling's test	(d) Aldol condensation	30.		U	D
27.	Bakelite is form from phenol by the reaction of (a) Acetaldehyde (b) Formaldehyde (c) Acetone	(d) Acetic acid	31.	d	K/A	E
28.	The reagent with which both Aldehyde and ketone react easily	(5) Freetre delu	32.		U	\mathbf{M}
20	(a) Fehling's reagent (b) Tollen's reagent (c) Grignard's reagen	t (d) All of these				
29.	A ketone when react with hydroxylamine to form: (a) Pri-alcohol (b) Acetal (c) Phenyl hydrazine	(d) Oxime	33.	c	U	M
30.	Boiling point of acetone is:		34.	b	\mathbf{A}	M
31	(a) 110°C (b) 56°C (c) 90°C Which of the following process can be used to prepare acctonbenous?	(d) 78°C				M
J1.	Which of the following process can be used to prepare acetophenone? (a) Cannizaro's (b) Aldol (c) Wurtz	(d) Friedel-craft's Acylation	35.		A	
32.	Which of the following pair react and form ester?	66.0	36.	d	K/A	E
33	(a) CH ₃ COOH & HCHO (b) CH ₃ CHO & CH ₃ OH (c) CH ₃ COOH & CH 2-methyl-2-propanol is an example of	₃ OH (d) All of these				
	(a) Primary (b) Secondary (c) Tertiary	(d) None of these				
2.2	When -OH group is directly attached with aliphatic carbon which contain of	only one hydrogen, the class				
34.	of alcohol is known as (a) Primary (b) Secondary (c) Tertiary	(d) None of these				
34.		(a) HOHE OF HIESE			1	1
	(a) Primary (b) Secondary (c) Tertiary Isopropyl alcohol is an example of alcohol					
	그램 중에 하는 이 이 경향 그는 그는 그는 그는 그는 그는 그 사람이 하는 그리고 하는 그리를 하는 그 그는 그 그는 것이 하는 이 이 이 경향	(d) None of these				

37.	Methanol is commercially prepared by (a) Wood (b) Water gas	(c) Molasses	(d) Wood charcoal	37. b	A	N
38.	Oxidation of methyl alcohol produce	(c) Molasses	(d) wood charcoar	20 0	TT	T
	(a) Formic acid (b) Formaldehyde	(c) Both of these	(d) None of these	38. c	\mathbf{U}	N
39.	the enzyme which converts starch into maltose (a) Maltase (b) Sucrase	is: (c) Zymase	(d) Diastase	39. d	K/A	E
40.	the enzyme which converts glucose into ethyl a		(d) Diastase		12,11	
	(a) Maltase (b) Sucrase	(c) Zymase	(d) Diastase	40. c	U	N
	Sucrose is disaccharide of (a) Glucose (b) Fructose	(c) Both of these	(d) None of these	41		
41.	99.99% ethanol is known as	(c) Both of these	(d) None of these	41.		
	(a) Ethyl alcohol (b)Rectified spirit	(c) Absolute alcohol	(d) All of these	42.		
42.	When methanol react with acetic acid the proc (a) Ethyl acetate (b) Methyl acetate	(c) Ethyl ethanoate	(d) None of these			
43.	Dehydrogenation of ethyl alcohol produces	(c) Emji culanoute	(a) I tolle of these	43.		
44	(a) Ethanoic acid (b) Ethano	(c) Ethanal	(d) Ethane	44.		
44.	Denatured alcohol contain % ethanol (a) 75 (b) 85	(c) 95	(d) 100	44.		
45.	The carbonyl compound in which both remain			45.		
46.	(a) Aldehyde (b) Ketone Neo-pentyl alcohol is an example of al	(c) Formaldehyde cohol	(d) Carboxylic acid			
	(a) Primary (b) Secondary	(c) Tertiary	(d) None of these	46. a	K/A	E
47.	Dehydrogenation of methyl alcohol produces	(a) A antin s = : I	(d) A actionary building	47. b	\mathbf{A}	N
49.	(a) Acetaldehyde (b) Formaldehyde Addition of hydroxylamine in formaldehyde p	(c) Acetic acid	(d) Acetic anhydride	-1/. U	7	11
	(a) Cyanohdrine (b) Oxime	(c) Acetal	(d) None of these	48	K/A	E
50.	Addition of alcohol is formaldehyde initially produced (a) Oxime (b) Acetal	roduce (c) Hemiacetal	(d) All of these	40.		_
51.	(a) Oxime (b) Acetal Formaldehyde can't undergo	(c) Hemiacetai	(d) All of these	49. .b	.A	.1
	(a) Oxidation (b) Reduction (c) C	annizaro's reaction	(d) Aldol condensation	50. c	U	N
52.	Reduction of an Aldehyde produces (a) A carboxylic acid	(b) An alcohol		30. €		1
	(c) Sometimes alcohol & sometimes carboxylic a	1240 F 1222 - year 120 - 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	se	51. d	K/A	E
53.	40% aqueous solution of HCHO is known as	(a) Bath afthan	(1) N	50 h		
54.	(a) Formalin (b) foronalin Acetone is the commercial name of	(c) Both of these	(d) None of these	52. b	A	N
	(a) 2-propanone (b) Dimethyl ketone	(c) Both of these	(d) 2-propanol	53. A	K/A	E
55.	Oxidation primary alcohol produce (a) A ketone (c) An Aldehyde	(c) A carboxylic acid	(d) An ester			1_
56.	Oxidation of secondary alcohol produce	(c) II carooxy ne acia	(a) I'm ester	54. C	U	N
	(a) A ketone(c) Sometimes ketone sometimes Aldehyde	(b) An aldehyde(d) A carboxylic acid		55. C	U	N
57.	Oxidation of ketone produce	(a) II carboxylic acid				*
	(a) An alcohol(c) Sometimes carboxylic acid & sometimes Alde	(b) An aldehyde hyde (d) Carboxylic ac		56. A	K/A	E
58.	Dry distillation of calcium formate produce	ilyde (d) Carboxylic ac	ciu	57. D	K/A	E
	(a) Acetone (b) Formaldehyde	(c) Acetic acid	(d) None of these	51. D	N/A	F
59.	Reduction of ketone produce (a) Aldehyde (b) Alcohol	(c) carboxylic acid	(d) Ester	58. B	A	N
60.	Isopropyl alcohol on oxidation gives	(-),	(0) 2000			
61	(a) Ether (b) Acetone	(c) Ethylene	(d) Acetaldehyde	59. B	A	N
01.	Rectified spirit contains % alcohol (a) 95.5 (b) 75.0	(c) 100.0	(d) 85.4	60. B	A	N
62.	is the end product in the process of f		(A) Ed. 3	JU. 15	1.	14
63.	(a) Methyl alcohol (b) Ethanol A product formed by the reaction of sodium w	(c) CH ₃ OH ith ethanol is	(d) Ethylene	61. .a	.K/A	.]
	(a) H ₂ O (b) NaOH	(c) NaH	(d) H ₂	62 L	A .	,
64.	Aldehydes and ketones are commonly referred (a) Ethers (b) Carbonyl compounds		(d) None of these	62. .b	.A	.1
65.	Aldehyde maybe distinguished from ketone by		(d) Hole of these	63. d	K/A	E
"	(a) Concentrated H ₂ SO ₄ (b) Grignard's reagent	(c) Pyrogallol	(d) Fehling's solution			
66.	In Aldehydes one bond of carbonyl group is al (a) carbon atom (b) Hydrogen atom	(c) Nitrogen atom	(d) None of these	64. b	A	N
67.	An aldehyde on oxidation gives			65. d	K/A	E
68.	(a) An alcohol (b) a ketone Now a days a large quantity of methyl alcohol	(c) an acid is obtained passing	(d) an amine over heated zinc and		-1/1	
100 P) Tr	chromium oxides at 400°C - 450°C under 200 :	atm		66. b	A	N
69	(a) Natural gas (b) Water gas Ethyl alcohol is produced on commercial scale	(c) Ethylene by the biological break d	(d) None of these	67. c	\mathbf{U}	N
٠,٠	(a) starch (b) Minerals	(c) Cellulose	(d) None of these	07. 6		11
				68b	.A	.1
				(0.4	TZIA	
				69. A	K/A	E

					1
70	CH OH I C H OH I I I I I I I I I I I I I I I I I I	70.	c	U	M
70.	CH ₃ OH and C ₂ H ₅ OH are highly miscible with water because they exhibits (a) Ionic bonding (b) Covalent bonding (c) Hydrogen bonding (d) None of these	1	_		
71.	Alcohols maybe converted to the correspondingby actions of halogen acids in the presence of	71.	b	A	M
	ZnCl ₂ (a) Aldehydes (b) Alkyl halides (c) Acyl halides (d) None of these		_		
72.	Dry distillation of calcium formate yields	72.	b	A	M
73	(a) Ether (b) Formaldehyde (c) Acetic acid (d) None of these		_		
73.	An Aldehyde is converted to carboxylic acid onwith K ₂ Cr ₂ O ₇ and H ₂ SO ₄ (a) Reduction (b) Oxidation (c) Dehydrogenation (d) All of these	73.	b	A	M
74.	When Aldehyde are warmed with red precipitates of cuprous oxide are precipitated		_		
75.	(a) Grignard's reagent (b) Fehling's solution (c) KMnO ₄ (d) None of these Formation of acetaldehyde from ethanol is called	74.	b	A	M
	(a) Addition (b) Reduction (c) Oxidation (d) Substitution				3.5
76.	When Aldehydes are warmed with Ammonical solution of silver nitrate, they precipitate metallic silver which often form mirror. This reaction is called	<i>75</i> .	C	U	M
	(a) Tollen's test (b) Fehlings test (c) Iodoform test (d) None of these	76		TZIA	TC
77.	The Aldehydes having no hydrogen attached to α carbon atom when treated with concentrated solution of an alkali, undergo self-oxidation and reduction, forming a mixture of an alcohol and a salt of	76.	a	K/A	E
	corresponding carboxylic acid. This reaction is called	77.	h	A	M
78.	(a) Fehlings reaction (b) Cannizaro's reaction (c) Formalin reaction (d) None of these is used as preservative for biological specimens	//-	D	A	IVI
70.	(a) Benzene (b) Ketone (c) Alcohol (d) Formalin	78.	А	K/A	E
79.	is used as a nail polish remover (a) acetone (b) Benzene (c) Iodoform (d) None of these	70.	u	IX/A	
80.	is prepared by heating methyl iodide with magnesium in anhydrous ether	79.	a	K/A	E
	(a) Girgnard's reagent (b) Mustard gas (c) Benzene (d) None of these	' - '		13/13	_
		80.	a	K/A	\mathbf{E}
		1.	a	K/A	\mathbf{E}
	CHAPTER 10 CHEMISTRY OF LIFE		h		N
		2.	b	A	M
1.	Starch is a polymer of	3.	a	K/A	\mathbf{E}
2.	(a) Glucose (b) Fructose (c) Lactose (d) Maltose On heating glucose with Fehling's solution we get a precipitate of color	1	0	K/A	E
_	(a) Yellow (b) Red (c) Black (d) Green	4.	a		
3.	During digestion carbohydrates are broken down to (a) Glucose (b) Amino acid (c) Fatty acids (d) None of these	5.	a	K/A	\mathbf{E}
4.	Glucose and fructose are	6.	a	K/A	E
	(a) Functional isomers (b) Metamers (c) Optical isomers (d) None of these				
5.	Carbohydrates, which have three to nine carbons atoms & aren't hydrolysable are called	7.	b	A	M
	(a) Monosaccharide (b) Disaccharides (c) Polysaccharides (d) None of these	8.	b	\mathbf{A}	M
6.	Glucose is (a) A monosaccharide carbohydrate (b) a disaccharide carbohydrate				
	(c) a polysaccharide carbohydrate (d) None of these	9.	a	K/A	E
7.	Sucrose is an example of	10.	a	K/A	\mathbf{E}
	(c) a polysaccharide carbohydrate (d) None of these	11.		U	M
8.	On hydrolysis is broken down into two simpler sugars glucose and fructose (a) Glucose (b) Sucrose (c) Maltose (d) None of these			U	
9.	Glucose is also called	12.	.c	.U	.M
10.	(a) Dextrose (b) Maltose (c) Fructose (d) Mannose The carbohydrates which contain hundreds to thousands of monosaccharide units are called	13.	h	.A	.M
10.	(a) Polysaccharides (b) Oligosaccharides (c) Hexoses (d) None of these				
11.	Cellulose is an example of	14.	d	K/A	E
12.	Enzymes are	15.	b	\mathbf{A}	M
12	(a) fats in nature (b) Carbohydrates in nature (c) protein in nature (d) Vitamins in nature Amino acids are the building block of				
13.	(a) Carbohydrates (b) Proteins (c) Lipids (d) Fats	16.	D	A	M
14.	In living systems enzymes catalyze reaction at°C (a) 0 (b) 25 (c) 100 (d) 37	17.	b	\mathbf{A}	M
15.	The substance upon which an enzyme acts is known as the	18.	h	A .	M
16	(a) Base (b) Substrate (c) Nutrient (d) pair Enzymes are most commonly named by adding the suffix to the root of the name of the substrate			A	
10.		19.	b	A	M
17	(a) Ose (b) ase (c) ane (d) ene	20.	a	K/A	E
17.	(a) Sucrose (b) Urea (c) Ammonia (d) Starch				
18.	is an enzyme (a) Sucrose (b) Sucrase (c) Maltose (d) Urea	21.	c	U	M
19.	(a) Sucrose (b) Sucrase (c) Maitose (d) Urea The site of the enzyme which combines with the substrate and at which transformation from substrate to	22.	d	K/A	E
	products occurs, is called				
20.	(a) Cellular site (b) Active site (c) Vacant site (d) Complex In organic substances that tend to increase the activity of an enzyme are called	23.	D	A	M
	(a) Activators (b) Inhibitors (c) Apoenzymes (d) Coenzymes	24.	c	\mathbf{U}	M
21.	Substances which tend to decrease the activity of enzyme are called (a) Activators (b) Accelerators (c) Inhibitors (d) Retarders				
22.	Maltose is a disaccharide which upon hydrolysis gives:	25.	.ນ	.A	.M
23.	(a) Glucose and fructose (b) Glucose and galactose (c) Glucose and mannose (d) 2 molecules of glucose Lactose is a disaccharide, which upon hydrolysis gives				
	(a) Glucose and fructose (b) Glucose and galactose (c) Glucose and mannose (d) 2 molecules of glucose				
24.	is called milk sugar (a) Maltose (b) Glucose (c) Lactose (d) Fructose				
25.	is called animal starch				
	(a) Cellulose (b) Glycogen (c) Glucose (d) Starch				

27.	Aspartic acid is the example	e of amino acid						
26	(a) Acidic Lysine is an example of	(b) Basic	(c) Neutral	(d) None	27.	я	K/A	E
20.		(b) Basic	(c) Neutral	(d) None	-/-	u	11,71	
29.	Leucine, arginine and valin			7.0	28.		K/A	M
30.	(a) Essential In protein, amino acids are	(b) Non-essential joint together by	(c) Both bond	(d) none	29.		K/A	T
	(a) Glycosidic	(b) Ester	(c) peptide	(d) Ether	29.		K/A	E
					30.	c	U	M
	CHAPTER 11	CHEMICALI	NDUSTRIES IN P	AVICTAN				
	CHAPTER 11	CHEWIICALI	INDUSTRIES IN P	AKISTAN				
1.	The substances added to the called	soil to provide one or mor	re nutrient elements essent	ial for plants growth are				
	(a) Growth hormones	(b) Minerals	(c) Fertilizers	(d) Salts	1.	c	U	\mathbf{M}
2.	Fertilizers are classifies into (a) Two major categories	(b) 3 major categories	(c) 4 major categories	(d) none of these	1.	C		14]
3.	Natural fertilizers are mater		(c) 4 major categories	(d) hole of these	2.	b	\mathbf{A}	M
	(a) Plants	(b) Animals	(c) Algae	(d) All of these			TZIA	
4.	The percentage of nitrogen (a) 37	(b) 50	(c) 46	(d) 82	3.	d	K/A	E
5.	The main constituents of	are boron oxide a	nd silica	Control of Control	4.	c	U	M
6.	(a) Pyrex glass Fertilizer maintain the pH of	(b) Soda lime glass	(c) Low silica glass	(d) Fibrous glass		C		
		(b) 7 to 8	(c) 5 to 7	(d) 8 to 10	5.	a	K/A	\mathbf{E}
	7. (a) NaNO ₃ is	also known (b) Urea	as chile (c) KNO ₃	salt peter (d) NH ₄ NO ₃	6.	b	A	M
8.	The process of making desig			(d) 1114103	0.	D	A	141
9.		(b) Etching dium and calcium silicate	(c) Watching	(d) All of these	7.	c	U	M
٠.	(a) Chemical glass ware	(b) Ordinary window glass	(c) Pyrex glass	(d) Colored glass	0	1.		
10.	is a mixture of po			(NG1 - 1.1	8.	b	A	M
11.	(a) Chemical glass ware (b) Ordinary window glass (c) Pyrex glass (d) Colored glass Polyethene bags are formed by the polymerization of					b	A	M
	(a) Ethane	(b) Ethene	(c) Propane	(d) Propene	9.	~		
	is a transparent light fittings and T.V guard	plastic, which is used to ma	ake combs, hair brushes, a	ir craft, windows, street	10.		U	\mathbf{E}
	(a) PVC	(b) Bakelite	(c) Perspex	(d) PVA	11.	h	A	M
13.	is use for the inst	llating covering of electric	al cables manufacture of g	ramophone records, suit	11.	D	A	141
	(a) PVC	(b) Bakelite	(c) Perspex	(d) PVA	12.	c	\mathbf{U}	M
14.		nufacture of chewing gum	aten silah menilikan kelanti sati sati bahan 🔻 Pelabahan 🖚		12	_	TZIA	107
15.	(a) PVC is used to make b	(b) Bakelite outtons, switches, electrical	(c) Perspex I boards, cameras, radio a	(d) PVA nd telephone components	13.	a	K/A	E
	(a) DVC	(h) Dalralita	(a) Daronav	(A) DV/A	14.	d	K/A	\mathbf{E}
17.	is the type of plastic	c which can be heated only (b) Thermo setting	y once and don't soften on (c) Both	reheating				
18.	- 74 - 54 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 -	enol and formaldehyde	(c) Dom		15.	•	K/A	M
	(a) PVC	(b) Bakelite	(c) Perspex	(d) PVA	16.		K/A	E
					10.	•	IV/A	
					17.	.b	.A	.N
							1	1

