St. JOSEPH ACADEMY MATRIC Hr. Sec. SCHOOL - Sankarapuram

Std – XII - Chemistry – Expected Questions

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Q. No	Lesson
64 (a)	Periodic classification
(b)	P – Block element

64 (a) Periodic classifications

- 1. Explain Pauling method to determine ionic radii
- 2. Explain the variation of I. E along the group and period
- 3. Explain the various factors that affect electron affinity
- 4. Describe about the factors governing ionization energy
- 5. Write about the Pauling's scale of determination of electro negativity
- 6. Write the application of electro negativity

(b) P – Block elements

- 1. Mention the uses of silicones
- 2. How to extracted lead from it is chief ore.
- 3. How fluorine is isolated from their fluorides (or) Explain Danni's method
- 4. Describe in how noble gases are isolated from air (or) explain Ramsay Raleigh's method.
- 5. Describe in how noble gases are isolated from air by Dewar's process
- 6. Explain anomalous nature of fluorine
- 7. Prove that H₃PO₃ is diprotic and H₃PO₄ is triprotic

Q. No	Lesson
65 (a)	Co – ordination compound
(b)	Nuclear Chemistry

65. (a) Co - Ordination

□ Compound

- 1. Explain isomerism with suitable example.
- 2. Explain the postulates of Werner's theory
- 3. Explain postulates of valence bond theory
- 4. Mention the function of Hemoglobin in natural process.
- 5. How is chlorophyll important in environ mental chemistry? Mention it's functions
- 6. In what way $[FeF_6]^4$ differ from $[Fe(CN)_6]^{4-}$?
- 7. For the complexes is given below mention
 - i) Name (ii) Central metal ion
- iii) ligand
- iv) Co ordination number
- mber v) Geometry
 - c) [Fe F₆]

- a) K₄ [Fe (CN)₆]
- b) [Fe $(CN)_6$]
- d) $[Ni(CN)_4]$ e) $[NiCl_4]$
- 8. [Ni (CN)₄]² Dia magnetic whereas [Ni Cl₄]² paramagnetic why?
- 9. Mention the tupe of hybridization any magnetic property of following complexes using VB theory a) $[Fe\ F_6]^{4-}$ b) $[Fe\ (CN)_6]^{4-}$
- a) $[\text{Fe F}_6]^{4-}$ 10. Write a note on
 - i) Neutral ligand
- ii) Chelates
- iii) Co Ordination sphere

(b) Nuclear Chemistry

- 1. Distinguish between nuclear fission and fusion
- 2. Distinguish between chemical reaction nuclear reaction
- 3. Write a note on radio carbon dating
- 4. Explain about the nuclear fusion reaction takes place in sun and star
- 5. Explain hydrogen bomb
- 6. Explain the uses of radio isotope sin medicinel

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Q. No	Lesson
66 (a)	Solid state
(b)	Surface Chemistry

66. (a) Solid State

- 1. Write Bragg's equation and significance
- 2. Explain schotlky and frankel defect
- 3. What are super conductor and mention its uses.
- 4. Explain Bragg's spectro meter
- 5. Explain the nature of glass
- 6. Explain AB and AB₂ type crystal
- 7. Write the characteristic of ionic crystal

(b) Surface Chemistry

- 1. Distinguish between physical adsorption and chemical adsorption
- 2. Discuss the factors affecting of adsorption
- 3. Write briefly intermediate compound theory
- 4. Write briefly about adsorption theory
- 5. Write the general character of catalytic reaction
- 6. Write briefly about the preparation of colloids by dispersion method
- 7. Write briefly about the preparation of colloids by condensation method (or) Chemical method
- 8. Explain about electrophoresis
- 9. Write application of colloids
- 10. Write a note on emulsion
- 11. Write a note on
 - i) Dialysis ii) Electro dialysis
- iii) Ultra filtration

- 12. Write a note on
 - i) Tyndall effect
- ii) Brownian movement
- iii) Helmholtz double layer

Q. No	Lesson			
67 (a)	Electro Chemistry – I			
(b)	Electro Chemistry – II			

67. (a) Electro Chemistry – I

- 1. Write an account of the Arrhenius theory of electrolytic dissociation
- 2. Write about the evidence of Arrhenius theory of electrolytic dissociation
- 3. Explain Ostwald's dilution law.
- 4. Explain buffer action with an example
- 5. Derive Henderson's equation
- 6. Write a note a quinoid theory of indicator

(b) Electro chemistry – II

- 1. Explain the reaction taking place in Daniel cell with diagram
- 2. Write a note on IUPAC convention of representation of a cell
- 3. Write an account on cell Terminology
- 4. How emf of a cell is determined
- 5. Derive Nernst equation
- 6. Explain SHE constructed?
- 7. How is emf of a half all determined

Compulsory

Q. No	Lesson
70 (a)	Hydroxy derivative
(b)	D – Block Elements

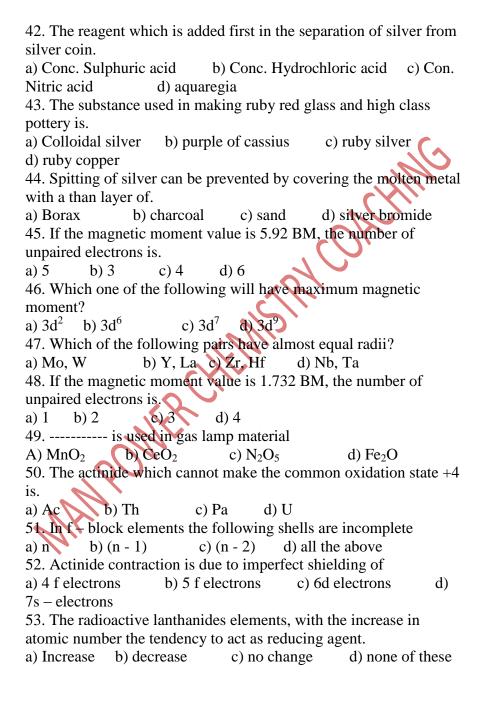
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Class: XII	. Sub	: CHEMISTRY
1. The bond order of nitrogen molecule is.		
a) 2.5 b) 3 c) 2 d) 4		
2. The type of hybridization in CO_3^{2-} ion is.		C .
a) sp b) sp ² c) sp ³ d) sp ³ d		
3. Which one of the following molecule is p	oaramag	netic?
a) H_2 b) He_2 c) N_2 d) O_2		c////
4. The circumference of the circular orbit of	f electro	n is an integral
multiple of its.		
a) Frequency b) momentum c) ma	ass	d) wavelength
5. The nature of hybridization in IF ₇ molecular	ile is	
a) $SP^2 d^2$ b) $Sp^3 d^4$ c) Sp^3	d^3 d):	$sp^2 d^4$
6. Inter – molecular hydrogen bonding is pr		
a) HF b) H ₂ O c) ethanol d) al	ll of thes	se
7. The hybridization involved in XeF_6 is		
a) $sp^3 d^3$ b) $sp^3 d^2$ c) $sp^3 d^3$		d) sp ³
8. Energy levels of molecular orbital's have	e been de	etermined
experimentally by		
a) Spectroscopic studies b) x – ray diffra		c)
crystallographic studies d) none of the		
9. In a molecule eight electrons are present		
orbital and four electrons are present in anti	i – bond	ing molecular
orbital its bond order is.		
a) 3 b) 4 c) 2-5 d) 2		
10. Water exists in liquid state. This is due		
a) high boiling point b) low boiling point	c) free	ezing point is
zero d) hydrogen bond		
11. The hybridization in SO_4^2 ion is	3 .3	
a) sp^{3} b) $sp^{3} d^{3}$ c) $sp^{3} d$ d) s	•	
12. Number of spherical nodes in 2s orbital	1S	
a) 1 b) 2 c) 3 d) 4		

13. Which one of the following experiments confirmed the wave
nature of electron?
a) G. P. Thomson's gold foil experiment b) Black body
radiation c) photoelectric effect d) Millikan's oil – drop
experiment
14. The hybridization in IF ₇ molecule is
a) sp^3d b) $sp^3 d^2$ c) sp^3 d) $sp^3 d^3$
15. Molecular orbital with the least energy is a) σ 1s b) σ *1s c) π 2py d) π *py
a) $\sigma 1s$ b) $\sigma^* 1s$ c) $\pi^2 py$ d) $\pi^* py$
16. The hybridization in NH ₄ ⁺ ion is
a) sp b) sp ² c) sp ³ d) sp ³ d 17. The nature of hybridization in PCI ₅ molecule is a) SP ³ d ² b) Sp ³ d c) Sp ³ d) sp ²
17. The nature of hybridization in PCI ₅ molecule is
a) $SP^3 d^2$ b) $Sp^3 d$ c) Sp^3 d sp ²
18 The hybridization in ICL ion is
a) sp^3 b) sp^3d c) SP^3d^2 d) SP^3d^3
19. The molecular orbital's are filled according to.
a) paulis exclusion principle b) hunds rule c) aufbau
principle d) all the above
20. which has least melting point?
a) B b) A1 c) Ga d) In
21. The general electronic configuration of carbon family is.
a) $ns^2 np^2$ b) $ns^2 np^3$ c) $ns^2 np^4$
22. The metalloid among the following is.
a) Pb b) P c) Ge d) Sn
23. The toxic element of boron family is.
a) boron b) indium c) thallium d) gallium
24. Which of the following does not belong to group 14?
a) C b) Si c) Ga d) Pb
25. Which of the following has the property of etching on glass?
a) HI b) HF c) HBr d) HCI
26. The compound used to arrest the bleeding is
a) $K_2 SO^4$ b) potash alum c) $AI_2 (SO_4)_3$ d) KI
27. Which of the following shows negative oxidation state only?
a) Br b) F c) CI d) I

28. An element which belongs to group 14 is soft in nature, does not react with pure water, but dissolves in water containing dissolved
air. Then the element is
a) C b) Ge c) Pb d) Ti
29. Inert gas used in beacon lights for safety of air navigation is.
a) Helium b) Argon c) Neon d) Xenon
30. The value of magnetic moment of Ti ³⁺ ion is
a) 0 b) 1.73 c) 2.83 d) 3.87
31. Zn displaces Au from K [Au (CN) ₂] because
a) Zn is more electro positive than Au b) Au is more electro
positive than Zn c) Zn is more electro negative than Au
d) Atomic mass of Zn is greater than Au
32. The metal used in galvansing iron sheets is
a) chromium b) zinc c) copper d) silver
33. Bordeaux mixture contains.
a) AgNO ₃ +HNO ₃ b) ZnSO ₄ +H ₂ SO ₄ c) Cu SO ₄ +
$Ca(OH)_2$ d) $KMnO_4 + HCI$
34. K ₂ Cr ₂ O ₇ reacts with KI and dilutee sulphuric acid and liberates
a) O_2 b) I_2 c) H_2 d) SO_2
35. The color of purple of cassius is
a) Purple b) blue c) bluish green d) apple green
36. Ferrochrome is an alloy of
a) Cr, C, Fe, Ni b) Cr, Co, Ni, C c) Fe, Cr d) Cr, Ni, Fe
37. Silver obtained from silver coin is purified by fusion with
a) $AgNO_3$ b) HNO_3 c) H_2SO_4 d) borax
38. Which of the following is wrong statement regarding $K_2Cr_2O_7$?
a) Oxidizing agent b) used tanning industry c) soluble in
water d) reduces ferrous sulphate
39. The number of unpaired electrons in Ti ³⁺ is 1. Its magnetic
moment in Bm is
a) 1.414 b) 2 c) 1.732 d) 3
40. The catalyst used in the manufacture of polythene is.
a) V_2O_5 b) Fe c) MO d) Ti CI_4
41. A metal which precipitates gold from its aurocynide complex is.
a) Cr b) Ag c) Pt d) Zn



54. The long mission space probes use as power source					
a) Pu b) U c) Th d) Pm					
55. The common oxidation state of actinide is.					
a) $+2$ b) $+3$ c) $+4$ d) $+6$					
56. ThO ₂ is used in					
56. ThO ₂ is used ina) toys b) tacer bullets c) gas lamp materials d) deying					
cotton					
57. Which of the following is a radioactive lanthanide?					
a) Pu b) Ac c) Th d) Pr					
58 is the oxidation state of U in UF_6					
a) +6 b) +4 c) +3 d) 0					
59. According to Fajan's rule decrease in size of Dn in Ln					
$(OH)_3$					
a) Increase the covalent character b) decrease the covalent					
character c) increase the basic character d) increase					
the ionic character					
60. Which is used as a power source in long mission space probes?					
a) Uranium – 235 b) Uranium – 238 c) plutonium – 238					
d) Mish metal					
61. The type of hybridization of the central metal ion in the complex					
$[Ni (CN)_4]^{2-}$ is.					
a) sp^{3} b) sp^{3} d c) $d sp^{2}$ d) $d sp^{3}$					
62. IUPAC name of the complex $K_3 \left[Cr(C_2O_4)_3 \right]^3 H_2O$ is					
a) Potassium (ri oxalate chromate (III) trihydrate					
b) triaquo potassium tri oxalate chromate (iii)					
c) Potassium tris (oxalato) chromate (III) trihydrates					
d) Potassiumtris (oxalato) chromate (III) trihydtrate					
63. The type of isomerism found in the complexes [pt					
$(NH_3)_4[CuCI_4]$ and $[Cu(NH_3)_4][PtCI_4]$					
a) Ionization isomerism b) co – ordination isomerism					
c) linkage isomerism d) ligand isomerism					
64. Which of the following is cationic complex?					
a) $K_4[Fe (CN)_6]$ b) $[Cu (NH_3)_6]CI_2$ c)					
$K_3[Cr(C_2O_4)_3]$ d) $K_3[Fe(CN)_6]$					

65. The co – ordination number of Cr (III) in [Cr				
$(H_2O)_4CI_2]CI.2H_2O$ is.				
a) 3 b) 4 c) 6 d) 2				
66. The coordination number of Nickel in the complex ion [NiCI ₄] ²				
a) $+1$ b) $+4$ c) $+2$ d) $+6$ is				
67. The most penetrating radiations are				
a) α - rays b) β - rays c) γ - rays d) al				
are equally penetrating				
68. High speed projectiles may chip a heavy nucleus into several				
fragments in.				
a) Nuclear fission reactions b) nuclear fusion reaction				
c) spallation reaction d) all of these				
69. After 24 hours 0.125g of the initial quantity of 1g of a				
radioactive isotope is left out. The half – life period is.				
a) 24 hours b) 12 hours c) 8 hours d) 16 hours				
70. When $_{7}N^{15}$ is bombarded with a proton it gives $_{6}C^{12}$ and				
a) α - particle b) β - particle c) neutron d) proton 71. In nuclear reactionis are balanced on both sides				
71. In nuclear reaction is are balanced on both sides				
a) mass b) number of atoms c) mass number				
d) atomic number and mass number				
72. Half – life period of a radioactive element is 1500 years. The				
value of disintegration terms of second is				
a) $0.1465 \times 10^{-10} \text{ sec}^{-1}$ b) $0.2465 \times 10^{-10} \text{ sec}^{-1}$ c)				
a) 0.1465x10 ⁻¹⁰ sec ⁻¹ b) 0.2465x10 ⁻¹⁰ sec ⁻¹ c) 0.1465x10 ⁻⁸ sec ⁻¹ d) 0.3645x10 ¹⁰ sec ⁻¹				
73. Half –life period of a radioactive element is 100 seconds. It				
average life period is.				
a) 100 seconds b) 50 seconds c) 200 seconds d) 144				
second				
74. 92U ²³⁵ nucleus absorbs a neutron and disintegrates into				
$_{54}$ Xe 139 , $_{38}$ Sr 94 and X. What is X?				
a) 3 neutrons b) 2 neutrons c) α - particle d) β				
- particle				
75. Half life period of 79Au198 Nucleus is 150 days. The average				
life is.				

a) 216 days	b) 21.6 days	c) 261 day	ys d) 26.1	
days				
76. β particles	is represented as			
a) $_{+1}e^{0}$	b) $_{-1}e^{0}$ c)	$_{1}H^{1}$ d) $2H$	e^4	
77. The number	er of chloride ions j	present per unit	of CsCI	
a) 6 b)	8 c) 1	d) 4		
	ves its regular site		position in the	
space the lattic	sites. The defect is	s called is.		
a) Schottky det	fect b) Frenl	kel defect	c) impurity	
defect	d) vacancy defec	t	C/VII.	
79. The $co - or$	dination number of	of ZnS is	UP,	
a) 3 b) 4	c) 6	d) 8		
80. The crystal	lattice with coord	ination number	O	
a) CsCI	b) ZnO c) BN	J d) N:	aCI	
81. Which one	of the following ca			
a) MgF2 b) CSCI c)) KCI d)	NaCI	
82. The standar	rd free energy valu	e (G°) of forma	ation of an element	
in its stable sta	te is.			
a) Zero	b) negative	c) positive	d)	
unpredictable				
83. A liquid wl	hich obeys Troutor	ı's rule is.		
a) H ₂	b) H_2O c)	CH ₃ COOH	•	
84. The change	e of entropy for the	process H ₂ O _{(lie}	$_{\rm q)\rightarrow} \rm H_2O_{\rm (vap)}$	
involving $\Delta H_{(vap)} = 40850 \text{Jmol}^{-1}$ at 373K is				
	b) 9.1x10 ⁻³ J	$\text{mol}^{-1}\text{K}^{-1}$	c) 109.52 Jmol ⁻¹ K ⁻¹	
d) 9.1x10 ⁻⁴ Jm	ol ⁻¹ K ⁻¹			
85. The entrop	y change involved	in the process of	of $H_2O(s) \rightarrow H_2O$	
(1) at 0° C and	1 atm pressure inv	olving ΔH _{fusion}	$= 6008 \text{J mol}^{-1} \text{ is.}$	
a) 22-007 J mo	b) 22	2-007 mol K ⁻¹	c) $220 - 07J$	
mol ⁻¹ K ⁻¹	d) $2 - 2007 \mathrm{J}\mathrm{n}$	nol K ⁻¹		
) and the entropy c		a process	
a) are path functions b) are state functions c) are constant d)				
have no values				
87. H ₂ O (1) —	$H_2O(g)$; in this pr	cocess the entro	ру	
- \ /	= \(\mathcal{O}\),			

becomes zero

involving $\Delta H_{(vap)} = 40$	850J mol – 1 at 37	'3 K is 1	,	` 17
a) 22.007 mol ⁻¹ K ⁻¹	b) 7.307 J mol ⁻¹	K^{-1} c) 109.52 m	ol ⁻¹ K ⁻¹
d) 0.2287 JK ⁻¹	<i>5)</i>	· · · · · · · · · · · · · · · · · · ·	, 10,.52 11	.01 11
89. The percentage efficiency of a heat engine that operates between				
127° and 27° C is.	incremely of a mean e	1181110 1110	operates.	Stroon
	e) 100% d) 25%	/	11	1110
90. The network obtain			hy	
a) W + P Δ V				d) – W
$- P\Delta V$	υ) w -1Δ v	C) = VV	1 2 1	u) – w
	andition for imarra		<u>)</u>	
91. Thermodynamic c		rsible spo	maneous	process
at constant T and p is.			1\ A TT.	0
a) $\Delta G < 0$ b) ΔS			d) Δ H >	
92. The entropy chang				
(vapour, 373K) involv	$nng \Delta H_{vap} = 4085$	0 J mol –	1 at 3/3 k	1S.
a) 10.952 J mol ⁻¹ K ⁻¹	b) 109.52 J n	nol ' K '	c) 100.9	52 Jmol
¹ K ⁻¹ d) 1095.2 J m	ol K	0.1		0
93. According to Trou			ige in entr	opy of
vaporization is. a) 21 cal. Deg ⁻¹ mole		- -1		
a) 21 cal. Deg mole	b) 12cal. deg m	ol	c) 21K.	
cal,deg.mole	d) 12Kcal.deg	.mol ⁻¹		
94. Free energy (G) ar	nd the free energy	change ∆	G correspo	ond to
the				
a) system only l		y	c) system	n and
	d) all of these			
95. Entropy is a	function			
, <u>.</u>	c) exact		d) inexact	
96. In S. I unit 1 EU is				
a) 41.84 EU	b) 4.184 EU	c) 41	8.4 EU	d)
4184				
97. For an isothermal	process, the entrop	y change	of the uni	verse
during a reversible pro	ocess is.			

a) Remains constant b) decreases c) increases d)

88. The entropy change for the process, water (liq) to water (vap)

a) Zero b) more c) less d) none of the above	
98. For an endothermic equilibrium reaction, if K_1 and K_2 are the	
equilibrium constants at T_1 and T_2 temperature respectively and if T_2	Γ_2
$>$ T_1 , then.	
a) $K_1 < K_2$ b) $K_1 > K_2$ c) $K_1 = K_2$ d) none	
99. At chemical equilibrium (PTA - 2)	
a) $Q > Kc$ b) $Q < Kc$ c) $Q = Kc$ d) $Q = 1/Kc$	
100. The active mass of 28g of nitrogen in 2 litres is.	
a) 1M b) 0.5M c) 2M d) 4M	
101. The catalyst used in the synthesis of SO ₃ by contact process is	
a) Fe b) I_2 c) Mo d) V_2O_5	
102. The relation between Kp and Kc of a reversible reaction is.	
a) $K_c = K_p (RT)^{\Delta ng}$ b) $K_p = K_c (RT)^{\Delta ng}$ c) $K_p = K_c$ d) $K_p = K_c$	9
= 1/Kc	
103. $2H_2O_{(g)} + 2CI_{2(g)} - 4HCI_{(g)} + 5O_{2(g)}$	
a) $K_c = K_p$ b) $K_c > K_p$ c) $K_c < K_p$ d) $K_c = K_p$ =0	
104. If the equilibrium constant for the formation of a product is 25	,
the equilibrium constant for the decomposition of the same product	
is.	
a) 25 b) $\frac{1}{25}$ c) 5 d) 625	
105. When Δ ng is a homogeneous gaseous equilibrium is positive,	
then	
a) $K_c = K_p$ b) $K_c < K_p$ c) $K_c > K_p$ d) $K_c = K_p/2$	
106. If the reversible reaction $2HI - H_2 + I_2$. Kp	
a) Greater than Kc b) less then Kc c) equal	
to Kc d) zero	
107. Which of the following gaseous equilibria is forward by	
increase in temperature?	
a) $N_2O_4 - 2HO_2$; $\Delta H = +59 \text{ KJ mol}^{-1}$	
b) $N_2 + 3H_2 - 2NH_3$; -22K cal mol ⁻¹	
c) $2SO_2 + O_2 - 2SO_3 : \Delta H = -47 \text{K cal mol}^{-1}$ d) both (a) & (b)	
108. The maximum yield of ammonia by Haber's process is.	
a) 78% b) 97% c) 37% d) 89%	
109. In a reaction $2O_3$ — $3O_2$ the value of K_c is.	

a) $\frac{[0]}{[0]}$

b) $\frac{[0]}{[0]}$

c) $\frac{[0]}{[0]}$

d) $\frac{[0]}{[0]}$

110. In the synthesis os NH₃ between N₂ and H₂ reacionthe unit of

Kp is -----a) lit² mol⁻²

b) atm⁻² c) lit atm⁻¹ d) atm⁻¹

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3 marks Question - 2014

Class: X II Marks: 150 Sub: Chemistry Time: 3 hrs

- 1. Why He₂ is not formed?
- 2. What is bond order?
- 3. State Heisenberg uncertainty principle?
- 4. What is the significance of Negative electronic energy?
- 5. Define hybridization?
- 6. What is the condition for effective hydrogen bonding?
- 7. Prove that p_2O_5 is powerful dehydrating agent?
- 8. Why HF is not stored in silica or Glass bottles, write the equation?
- 9. What is plumbo solvency?
- 10. Write about the Holme's signal?
- 11. Write the uses of He₂?
- 12. Write the uses of Ne?
- 13. How is potash Alum is prepared?
- 14. How is phosphoric acid is prepared in the laboratory?
- 15. What is innert pair effect?
- 16. H₃PO₃ is diprotic why?
- 17. H₃PO₄ is Triprotic why?
- 18. Mention the uses of potash alumn?
- 19. Write preparation of ClF, ClF₃ and IF₇
- 20. What is the action AgNO₃. Write the equation?
- 21. Why do d block element exhibits various oxidation state?
- 22. What is spitting of silver. How is it prevented?
- 23. Why Mn^{2+} is more stable than Mn^{3+} ?
- 24. What is the action of copper sulphate crystal?
- 25. Why do block element forms complexes'?
- 26. Why are transition metals ions colored?
- 27. Write the action of aqua regia on Gold?
- 28. How is chrome plating done?
- 29. What is action of Zinc on hot NaOH?
- 30. What is the reaction of CUSO₄ with KCN?
- 31. How are glass formed?
- 32. What are the superconductors?
- 33. Sketch i) SC ii) BCC iii) FCC

- 34. What is vitreous state? Example?
- 35. State Bragg's law?
- 36. Write the application of superconductor?
- 37. 39 Thermodynamics?
- 38. State Le chatelier's principle?
- 39. Dissociation of PCl₅. Decrease in presence of increase in Cl₂ why?
- 40. Define reaction quotient?
- 41. What is the equilibrium constant?
- 42. What happens when $\Delta G = 0$, $\Delta G = \text{negative } AG = + \text{ ve}$
- 43. Write the Arrhenius equation and explain terms?
- 44. What is opposing reaction giver an Example
- 45. What is parallel reaction . eg?
- 46. What is consecutive reaction . eg?
- 47. Define order of reaction?
- 48. What is activation energy?
- 49. Write any two characteristic of 1st order reaction?
- 50. What is rietiemen reaction?
- 51. Give any three points of test for phenol?
- 52. Lederer manasse reaction?
- 53. Phenol how to react with ammonia?
- 54. How to prepare Terrylene (or) Dacron?
- 55. Coupling with diazonium chloride?
- 56. Kolbe's (or) Kolbe's schimidt reaction?
- 57. Dow process?
- 58. How can the consumption of alcohol by a person detected?
- 59. Alcohol cannot be used as solvent for Grignard reagent why?
- 60. Schotten Bauman?

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- 13. How is potash Alum is prepared?
- 14. How is phosphoric acid is prepared in the laboratory?
- 15. What is innert pair effect?
- 16. H₃PO₃ is diprotic why?
- 17. H₃PO₄ is Triprotic why?
- 18. Mention the uses of potash alumn?
- 19. Write preparation of ClF, ClF₃ and IF₇
- 20. What is the action AgNO₃. Write the equation?
- 21. Why do d block element exhibits various oxidation state?
- 22. What is spitting of silver. How is it prevented?
- 23. Why Mn^{2+} is more stable than Mn^{3+} ?
- 24. What is the action of copper sulphate crystal?
- 25. Why do block element forms complexes'?
- 26. Why are transition metals ions colored?
- 27. Write the action of aqua regia on Gold?
- 28. How is chrome plating done?
- 29. What is action of Zinc on hot NaOH?
- 30. What is the reaction of CUSO₄ with KCN?
- 31. How are glass formed?
- 32. What are the superconductors?
- 33. Sketch i) SC ii) BCC iii) FCC

- 34. What is vitreous state? Example?
- 35. State Bragg's law?
- 36. Write the application of superconductor?
- 37. 39 Thermodynamics?
- 38. State Le chatelier's principle?
- 39. Dissociation of PCl₅. Decrease in presence of increase in Cl₂ why?
- 40. Define reaction quotient?
- 41. What is the equilibrium constant?
- 42. What happens when $\Delta G = 0$, $\Delta G = \text{negative } AG = + \text{ ve}$
- 43. Write the Arrhenius equation and explain terms?
- 44. What is opposing reaction giver an Example
- 45. What is parallel reaction . eg?
- 46. What is consecutive reaction . eg?
- 47. Define order of reaction?
- 48. What is activation energy?
- 49. Write any two characteristic of 1st order reaction?
- 50. What is rietiemen reaction?
- 51. Give any three points of test for phenol?
- 52. Lederer manasse reaction?
- 53. Phenol how to react with ammonia?
- 54. How to prepare Terrylene (or) Dacron?
- 55. Coupling with diazonium chloride?
- 56. Kolbe's (or) Kolbe's schimidt reaction?
- 57. Dow process?
- 58. How can the consumption of alcohol by a person detected?
- 59. Alcohol cannot be used as solvent for Grignard reagent why?
- 60. Schotten Bauman?