Chemistry - Model Question Paper

76. [BT:A] Picric acid and benzoic acid can be distinguished by the aqueous solution of
(A) $NaHCO_3$ (B) Na_2CO_3 (C) $NaOH$ (D) $FeCl_3$
77. [BT:K] Air pollution is caused by
(A) industries (B) automobiles (C) pollen grains (D) All of these
78. [BT:K] Soaps are obtained by
(A) saponification of oils or fats(B) alkaline hydrolysis of glycerol(C) acidic hydrolysis of esters of fatty acids and glycerol(D) All of these
79. [BT:K] Ascorbic acid is the chemical name of
(A)vitamin D (B) vitamin A (C) vitamin C (D) vitamin B ₆
80. [BT:A] The process involving heating of rubber with sulphur is called (A) galvanization (B) vulcanization (C) bessemerization (D) sulphonation [BT:C] Ethyl alcohol on oxidation with K ₂ Cr ₂ O ₇ gives
(A) acetic acid (B) acetaldehyde (C) formaldehyde (D) formic acid
82. [BT:K] Lucas test is performed for
(A) amines (B) alcohols (C) ethers (D) alkyl halides
83. [BT:C]. Ethene is obtained from ethyl bromide by
(A) Nucleophlic substitution (B) hydrolysis (C) simple heating (D) dehydrohalogenation
84. [BT:C]. Which of the following is an example of elimination reaction?
(A) Chlorination of methane(B) Dehydration of ethanol(C) Nitration of benzene(D) Hydroxylation of ethylene

85. [BT:K]] Which	of the fo	ollowing is	an aromatic	hydrocarbon?	
	(A) cycl	o penten	e (B) cy	yclo hexane	(C) naphthalene	(D) 1,3-butadiene
86. [BT:K]		ng to We		ory the secor	ndary valencies of a	central metal atom
		lation sta e of thes		ordination n	umber (C) sum of th	ne two
87. [BT:C]	Most co	ommon o	xidation st	ates shown l	oy cerium are	·
	(A) +2,+	+4 (B) +3	3,+4 (C) +	3,+5 (D) +2,	+3	
88.[BT:K]	. Quartz	is the cr	ystalline v	ariety of		
	(A) Si ((B) SiO ₂	(C) Na ₂ Si	O ₃ (D) SiC		
89.[BT:K]	. Heavy	water is	used in ato	omic reactor	as	
			moderator ant nor mo		lant and moderator	
90. [BT:C]	The ma	in functi	ion of roast	ing is	·	
	(A) redu	uction (I	B) oxidation	n (C) concen	tration (D) separa	tion
91. [BT:A]	The sho	ortest c-c	bond dista	ance is found	in	
	(A) Dia	mond (E	B) Ethane	(C) Benzene	(D) Acetyline	
92. [BT:K]	Which i	is of the	following h	as the large	st radius?	
	(A) K	+ (]	B) Cl-	(C) 0 ²⁻	(D) Cr ³⁺	
93. [BT:C]. The prare	_	and azimut	thal quantur	n number of electro	ns in 4f orbitals
	(A) 4,2	(B) 4	4,4 (C) 4	,3 (D) 3,4		

94. [BT:F	K] Which	of the foll	lowing inc	dicates the	charge or	n colloida	l particles	s?				
	(A) Brownian movement (B) electrophoresis (C) electrolysis (D) tyndall effect											
95. [BT:0	C] Effect	of temper	ature on 1	reaction ra	te is give	n by	·					
		iusius-Cla rhenius e		quation (B)) Gibbs-H Kirchoffs							
96. [BT:0	C] Which	of the foll	lowing ha	s highest v	alue of st	andard r	eduction _l	potential				
	(A) F ₂	(B) Cl:	2 (C) Br	c_2 (D)	I_2							
97. [BT:A	A] BF3 is_											
	(A) Lev	wis acid	(B) Lewis	base (C)	Bronsted	acid (D)	Arrhenius	s acid				
98. [BT:I				mmonia by are		tion N_2 +	$3 ext{H}_2\Leftrightarrow 2 ext{N}$	$NH_3 + 21.9$	kcal			
	(B) low (C) hig	tempera h tempera	ture, high ature, low	pressure a pressure pressure pressure	and cataly and cataly	yst yst						
99. [BT:0	C]ΔH ne	utralizati	on is alwa	ays	·							
	(A) pos	sitive (B)	negative	(C) zero	(D) can be	positive	or negati	ive				
100. [BT	:C] The	e molar so	olution of	sulphuric	acid is equ	ual to	·					
	(A) N s	solution ((B) 2 N so	olution (C) N/2 solu	tion (D)	3 N solut	ion				
Answe	ers (Che	mistry)										
76. (D)	77. (D)	78. (A)	79. (C)	80. (B)	81. (A)	82. (B)	83. (D)	84. (B)	85. (C)			
86. (B)	87. (B)	88. (B)	89. (C)	90. (B)	91. (D)	92. (C)	93. (C)	94. (B)	95. (C)			
96. (A)	97. (A)	98. (B)	99. (B)	100. (B)								