General Science Model Test Questions 33 With Answers [Chemistry - 11]

1. One among the following is mono atomic

	(A) Oxygen	(B) Helium	(C)	Fluorine	(D) Nitrogen				
2.	• •	ements Fluorine, Chlor rived from two Greek v			e are collectively known as				
	(A) Gun-Producer		(B) Paint-Pr	oducer					
	(C) Chemical-Proc	ducer	(D) Salt-Pro	ducer					
3.	Rodenticides (Rat	t killers) are							
	(A) Mixture of cop	pper sulphate and calc	ium hydroxid	de					
	(B) DDT and Zinc	phosphate							
	(C) Zinc phosphat	te and Arsenic							
	(D) Malathion and Zinc phosphate								
4.	4. Consider the following statements:								
	Assertion (A): S	odium hydroxide is a s	strong base.						
	Reason (R): Sodium hydroxide ionizes completely in aqueous solution.								
	Select your answe	er according to the cod	ding scheme	given below:					
	(A) Both (A) and ((R) are true, and (R) is	the correct	explanation of (A)					
	(B) Both (A) and (R) are true, but (R) is n	not the corre	ct explanation of (A)					
	(C) (A) is true, but	t (R) is false							
	(D) (A) is false, bu	it (R) is true							
5.	Gold will dissolve	only in							
	(A) Nitric acid		(B) Sulphuri	ic acid					
	(C) Hydrochloric a	acid	(D) Aqua re	gia					
6.	Which of the follo	owing statements abou	ut urea is inc	orrect?					
	(A) It does not cha	ange the pH of the soil	I						
	(B) It has highest	nitrogen content equa	al to 76.6%						
	(C) It is not subjec	cted to fire/explosion h	hazards						

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	(D) It	can be	used for	all crop	s and soil	S				
7.	Whic	h allotr	opic forn	n of carl	oon is a go	ood con	ductor of elec	tricity?		
	(A) Di	iamond	l	(B) G	Graphite		(C) Coke	(D) \	Nood charcoal	
8.	Matc	h list-l v	with list-	ll correc	tly and se	lect you	r answer usin	g the cod	es given below:	
		List-	I		List-II					
	(b) Aluminium2. Der(c) Boron3. Ring				oxidiser ntal wor gworm o ra marin	ointments				
	Code	s:								
		а	b	с	d					
	(A)	2	1	3	4					
	(B)	3	4	1	2					
	(C)	4	3	2	1					
	(D)	1	2	3	4					
9.	The n	netal re	lated to	'Alzheir	ner's dise	ase' is				
	(A) Cl	nromiu	m	(B) C	admium		(C) Alumini	ium	(D) Arsenic	
10.	Wher	n yeast	is produ	cing win	e which o	one of th	e following is	not form	ed?	
	(A) A	cetyl Co	DA	(B) E	thyl alcoh	nol	(C) Carbon-	-di-oxide	(D) Pyruvic acid	
11.	The c	hemica	l mainly	respons	ible for th	ne car-ai	r bag reaction	n is		
	(A) N	H₄NO₃ ((Ammon	ium Nitı	ate)	(B) Na	aN₃ (Sodium a	zide)		
	(C) KI	NO₃ (Po	tassium	Nitrate)		(D) Si	O2 (Silica)			
12.	Arran	ige the	followin	g in asce	ending or	der base	d on number	of carbon	atoms present in it.	
	I) Erythrose phosphate					II) Ph	sopho glycera	ldehyde		
	III) Sedoheptulose phosphate			IV) Ril	bulose phsopa	ahte				
	(A) I,	, , \	V	(B) I	I, I, IV, III		(C) I, II, III, I	V	(D) II, IV, I, III	
13.	Borde	eaux mi	ixture is							
	(A) Ci	uSO4 + (Ca(OH)₂			(B) CuSO ₄ + CaCl ₂				
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	(C) $ZnSO_4$ + Ca(OH) ₂	(D) $ZnSO_4 + CaCl_2$							
14.	Which statement is correct?								
	I) Wohler synthesized organic compo	und (urea) from an inorganic cor	npound annonium cyanate.						
	II) Wohler synthesized inorganic com	pound (urea) from an organic co	mpound ammonium cyanate.						
	III) Wohler synthesized organic comp	ound (urea) from an inorganic co	ompound ammonium isocyanate.						
	(A) I and III (B) II and III	(C) I and II	(D) I only						
15.	What is the IUPAC name of isobutyl a	Ilcohol?							
	(A) 2-ethyl-1-propanol	(B) 2-methyl-1-propanol							
	(C) 1-ethyl-2-propanol	(D) 1-methyl-2-propanol							
16.	The term basicity means								
	(A) Number of replaceable hydrogen atoms in one molecule of an acid								
	(B) Total number of hydrogen atoms in one molecule								
	(C) Number of replaceable hydroxide ions in one molecule								
	(D) Total number of hydroxide ions in one molecule								
17.	Which is called "Aqua tortis"?								
	(A) H ₂ SO ₄ (B) HNO ₃	(C) HCI	(D) H ₃ PO ₄						
18.	The new 4 elements added to the per	riodic table since 2011. They are							
	(A) 113, 114, 115 and 116	(B) 115, 116, 117 and 118							
	(C) 113, 115, 117 and 118	(D) 14, 116, 117 and 118							
19.	Which of the following weighs the mo	ost?							
	(A) One mole of water	(B) One mole of sodium							
	(C) One molecule of H_2SO_4	(D) One gram-atom of nitroge	en						
20.	The elements like silicon, tellurium ar	nd germanium can be purified by	,						
	(A) Electrolytic refining	(B) Mond's process							
	(C) Zone refining	(D) Pattinson's process							
21.	Prosthetic group of cytochrome oxida	ase [Cyt.a ₃] contains							

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	(A) Cu		(B) Ni		(C) Mn	(D) Fe				
22.	For th	e purific	ation of	metals,	match List – I v	vith List – II and select the	e correct answer.			
		List-I			List-I	I				
	(a) Ag (b) Cu (c) Ga (d) U	J			 Cupellatio Solvent ex 	 Electrolytic method Cupellation method Solvent extraction Zone refining 				
	Codes:									
		а	b	С	d					
	(A)	1	2	3	4					
	(B)	2	1	4	3					
	(C)	3	2	1	4					
	(D)	4	2	1	3					
23.		-	-		the decreasing sulphuric acid	order of acid strength in	aqueous medium: perchloric acid,			
	(A) Pe	rchloric	acid > N	itric acid	l > Sulphuric ac	id > Hyfro chloric acid				
	(B) Pe	rchloric	acid > H	ydro chlo	oric avid > Nitri	c acid > Sulphuric acid				
	(C) Su	lphuric a	acid > Ni	tric acid	> Perchloric ac	id > Hydro chloric acid				
	(D) Pe	rchloric	acid > S	ulphuric	acid > Hydro c	hloric acid > Nitric acid				
24.	Which	of the f	ollowing	g compo	unds(s) will libe	erate methane gas on rea	ction with water?			
	(A) Be	C₂ only			(B) A	I₃C₃ only				
	(C) Be	₂ C only			(D) B	soth AI_4C_3 and Be_2C				
25.	When	KMnO ₄	is reduc	ed with o	oxalic acid in a	cid medium, the oxidation	n number of Mn changes from?			
	(A) 7 t	o 4	(B) 7 t	o 2	(C) 6 to 4	(D) 4 to 2				
26.	Identi	fy the in	correctly	y matche	ed pair					
	(A) Fe	– metal		(B) Bi	– metal	(C) P – non metal	(D) Sb – metalloid			
27.	Which	one of	the follo	wing me	etal ions is a ha	rd acid?				
	(A) Li⁺		(B) Cu	+	(C) Ag ⁺	(D) Au⁺				

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28.	The oxidatio	n number of c	hromium in	Cr_2O^{2-} ion is				
	(A) -2	(B) +7	(C) +6	(D) -6				
29.	The ore concentrated by Froth f		roth floatati	on process is				
	(A) Chromite	e (B)Rutile	(C) Galena	(D) Mor	nazite		
30.	Nitroim is							
	(A) Ca(NO ₃) ₂	CaO (B) CaCO₃	(C) CaCN ₂	(D) CaN	IO ₃		
31.	Starch is con	verted into ma	altose by the	e enzyme				
	(A) Diastase	(В) Zymase	(C) Ri	bose	(D) Invertase		
32.	The value of	ionic product	of water					
	(A) 1 x 10 ⁻¹² r	mol². Lit⁻²		(B) 1 x 10 ⁻¹³ mol ² . Lit ⁻²				
	(C) 1 x 10 ⁻¹⁴ r	mol². Lit ⁻²		(D) 1 x 10 ⁻¹⁵ mol ² . Lit ⁻²				
33.	Cyrtolith is th	he deposition	of					
	(A) Calicium	carbonate		(B) Calcium ox	kylate			
	(C) Calcium p	pectate		(D) Silica				
34.	Which of the	e following is in	ncorrectly m	atched?				
	(A) Teflon	-	Tetraf	luoro ethylene				
	(B) Plexi glas	s -	Methy	/l methacrylate				
	(C) Orlon	-	Glycer	rol, phthalic anh	nydride			
	(D) Buna-s	-	Styren	ne, 1,3- butadier	ie			
35.	The chemica	l identified to	trap malaria	a mosquitoes is				
	(A) Redcol	(В) Decol	(C) Ce	drol	(D) Ecdrol		
36.	What are de	uterium and ti	ritium?					
	(A) Two diffe	erent elements	5	(B) Two differ	ent compo	ounds		
	(C) Names of	f two ores		(D) Isotopes o	of hydroge	en		
37.	Match the fo	ollowing:						
	(I) Carbon di	oxide	(a) Vu	lcanization of ru	ıbber	(i) Insecticide		
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	(II) Fuel	(b) Car	bon black	(ii) Be	everages				
	(III) Rubber tyres	(c) Fire	e extinguisher	(iii) Ir	ık pigment				
	(IV) Carbon disulphide	(d) Red	ducing agent	(iv) C	arbon monoxide				
	 (A) I − c − (iii) (B) I − c − iii (C) I − a − I (D) I − b − iv 	II – d – iv II – d – ii II – b – iii II – d – iii	III – b – iii III – b – I III – d – iv III – c – iii						
38.	Find out the incorrect	statement(s):							
	(I) All lathanides are no	on – radioactive							
	(II) Some actinides form MO_2^+ , Mo^{2+}_2 oxocations.								
	(III) The compounds of lanthanides are more basic than that of acitinide compounds								
	(IV) 5f elements show variables oxidation states like +2, +3, +4, +5, +6 and +7								
	(A) I and III	(B) II and IV	(C) III (only	(D) IV only				
39.	If the solubility of magnesium hydroxide is $\sqrt{2}$, the value of solubility product is								
	(A) 8	(B) 4√2	(C) 81	$\sqrt{2}$	(D) 9√2				
40.	Moss cotton is								
	(A) Azolla	(B) Funaria	(C) Nit	ella	(D) Sphagnum				
41.	The oxidation of So ²⁻ ₃ t Lewis base?	o SO²₋₄ ion by ox	xygen SO ²⁻ ₃ +	ightarrow SO ²⁻ ₄ , in th	is rection which is Lewis acid and				
	(A) SO^{2-3} is Lewis acid a	and oxygen is Lev	wis base						
	(B) Oxygen is Lewis ac	id and So²-₃ is Le	wis base						
	(C) Both are Lewis acid	S							
	(D) Both are Lewis base	e							
42.	Which one of the orga	nic pesticides the	at contain phosp	horous?					
	(A) DDT	(B) BHC	(C) 2, 4	1-D	(D) Parathion				
43.	Match the following:								
	(a) Mixed fertilizer		(1) DAP						
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	(b) Cor	mplex fe	rtilizer			(2) NPK				
	(c) Bio	fertilize	r			(3) Oil	cake			
	(d) Organic nitrogen fertilizer					(4) Algae				
		а	b	С	d					
	(A)	1	2	3	4					
	(B)	2	1	4	3					
	(C)	3	2	1	4					
	(D)	4	3	2	1					
44.	The co	ncentra	tion of h	yfroxide	ion in a	basic sc	olution the p	H value 4 is		
	(A) 1 x	10 ⁻⁴ M		(B) 1 x	10 ⁻¹⁰ M		(C) 10 x 10	⁻¹⁴ M	(D) 1 x 10 ⁴	Μ
45.	Match	the foll	owing:							
	(a) $CuSO_4.5H_2O$ 1. Lunar ca(b) $ZnCO_3$ 2. Philosop(c) $AgNo_3$ 3. Blue vitr(d) ZnO 4. Calamin									
	Codes	:								
		а	b	с	d					
	(A)	3	1	2	4					
	(B)	3	2	1	4					
	(C)	3	1	4	2					
	(D)	3	4	1	2					
46.	2KOH	+ H ₂ SO ₄	$\rightarrow K_2 SO_2$	₄ + 2H ₂ O						
	The Eq	uivalent	t mass o	f the salt	t K2SO4 is	5				
	(A) Equal to its molar mass						ice its molar	mass		
	(C) Half its molar mass				(D) Thi	rice its mola	r mass			
47.	Match	the follo	owing:							
		Acid –	base tit	ration	Suitab	le indica	itor			
	(b) HC	Cl Vs Na Cl Vs Na₂ I₃COOH	CO₃			nolphtha Suitable	alein indicator			
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	(d) V	isakhapa	atnam		4. UK			
	Codes	5:						
		а	b	С	d			
	(A)	4	3	2	1			
	(B)	3	4	1	2			
	(C)	1	4	2	3			
	(D)	2	1	4	3			
48.	Match	n the foll	lowing w	ith corro	ect answ	er:		
	(b) N (c) C	arathion abam aptan arboxin			2. Non 3. Orga	 Thiocarbamate fungicide Non-systematic fungicide Organo phosphorous insecticide Systematic fungicide 		
	Codes	5:						
		а	b	С	d			
	(A)	2	1	3	4			
	(B)	3	2	4	1			
	(C)	2	4	1	3			
	(D)	3	1	2	4			
49.	Eleme	ents with	n an ator	nic numl	ber abov	e are called super heavy elements.		
	(A) 10)4	(B) 10	3	(C) 105	5 (D) 112		
50.	Accor	ding to L	ux – floo	od conce	ept a base	e is a/an		
	(A) Hy	/droxide	ion don	or		(B) Proton acceptor		
	(C) Ele	ectron de	onor			(D) Oxide ion donor		
51.	In wh	ich of th	e separa	tion pro	cess, no	reducing agent is required?		
	(A) Irc	on from l	haemati	te		(B) Aluminium from bauxite		
	(C) M	ercury fi	rom cinn	abar		(D) Zinc from Zinc blende		
52.	What	is the el	ement X	in the n	iuclear re	action?		
	¹⁴ ₇ N +	$^{4}_{2}\text{He} \rightarrow$	X + ¹ ₁ P					

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	(A) ¹⁷ ₇ N	(B) ¹⁷ ₈ O	(C) ¹⁷ 9F	(D) ¹⁸ 10Ne						
53.	Polymerising	methyl arcylate	in presence of	polychlorostyrene yie	elds					
	(A) Chelate p	olymers	(B)	(B) Graft Polymer						
	(C) Coordina	tion polymers	(D)	Branched polymers						
54.	Find out the	incorrect statem	ent(s).							
	I) Magnesiur	n can reduce oxio	des of Alumini	um, Zinc, Iron and cop	per.					
	II) Copper cannot reduce the oxides of Iron and Zinc.									
	III) Zinc can reduce the oxides of Al and Mg.									
	IV) Aluminium can reduce the oxide of Mg.									
	(A) I and II	(B) III	and IV	(C) III alone	(D) IV alone					
55.	The blue colour in Borax Bead test is due to the presence of									
	(A) Iron	(B) Nickel	(C)	Cobalt (D) Zinc					
56.	Choose the i	ncorrect match								
	(A) Baking soda – sodium hydrogen carbonate									
	(B) Washing	soda – sodium ca	arbonate							
	(C) Bleaching	g powder – calciu	m oxycholorid	e						
	(D) Limeston	ie – calcium sulp	hate							
57.	Which of the	following is/are	correct?							
	I) Conjugate	acid of NH₃ is NH	2							
	II) Conjugate	base of HN₃ is N	3							
	III) HCO⁻₃ car	act both Bronsto	ed acid and Bro	onsted base						
	(A) I and II	(B) II	and III	(C) I and III	(D) I, II and III					
58.	Match the co	ompounds with c	orrect oxidatic	on number of the unde	erlined:					
	Compounds		Oxidation r	number						
	(a) $Cr O_2 Cl_2$		1. +7							
	(b) Mn O₃ Cl (c) NH₂ OH		2. +2 31							
	., -									

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	(d) O	F ₂			4. +6	
	Codes	5:				
		а	b	с	d	
	(A)	4	1	2	3	
	(B)	4	1	3	2	
	(C)	1	3	2	4	
	(D)	2	4	1	3	
59.		-		ng agent to	-	reaction, converts to KCl, where the oxidation number of 'Cl'
	(A) +3 to -1 (B) +5 to -1			(B) +5	to -1	(C) +1 to -1 (D) +4 to -1
60.	The h	ardness	of wate	r is estin	nated by	using
	(A) Chelating Agent					(B) Oxidising Agent
	(C) Reducing Agent					(D) Neutralising Agent
61.	Match	n the fol	lowing l	ists:		
		List-l			List-II	
	(b) Te (c) V	eomycir erramyc iridin enicillin		2. Per 3. Stre	ncillium r	es rimosus
	Codes	5:				
		а	b	с	d	
	(A)	3	1	4	2	
	(B)	3	4	1	2	
	(C)	1	3	4	2	
	(D)	4	1	2	3	
63.	The c	oncept v	which sta	ates that	"An acio	is a substance which can accept electrons"
	(A) Ar	rhenius	concept	:		(B) Lowry and Bronsted concept
	(C) Le	wis con	cept			(D) Lux-Flood concept
64.	Carbo	orundum	n is			
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	(A) B	oron cai	rbide			(B) Ca	lcium carbide	
	(C) Tι	ungsten	carbide			(D) Sil		
65.	Matc	h the fo	llowing	and choo	se the co	orrect op	otion.	
	(a) Urea (b) CAN (c) Calcium cyanamide (d) Triple super phosphate				2. (NH	H ₄ (PO ₄		
	Codes:							
		а	b	с	d			
	(A)	2	1	4	3			
	(B)	4	3	2	1			
	(C)	3	4	1	2			
	(D)	1	4	3	2			
66.	Whic	h of the	allotrop	es of car	bon has i	network	of 20 hexagon	s and 12 pentagons of carbon atoms?
	(A) D	iamond		(B) Fu	Illerene		(C) Graphite	(D) Carbon nano tubes
67.	One a	among t	he follo	wing is no	ot an inse	ecticide		
	(A) N	lethoxy	chlor	(B) Pł	neromon	e	(C) Heptachlo	or (D) Gammaxene
68.	The a	icidity o	f the raii	n water is	s measur	ed by th	e scale	
	(A) °C	2	(B) d	в	(C) pH		(D) Cm	
69.	The I	nternati	ional Tsu	inami Inf	ormation	Centre	is located at	
	(A) In	idia		(B) Sr	ilanka		(C) Hawaii	(D) Japan
70.	In the	e follow	ing cryst	als which	n is the Pi	ezo eleo	ctric crystal?	
	(A) D	iamond		(B) Q	uartz	(C) Sc	odium Chloride	(D) Silicon
71.	Whic	h amon	g the fol	lowing is	correct?			
		Alloy	/		Comp	osition		
)uralum Jenman			- Al + (- Cu +	Cu + Mg Zn + C	+ Ag	

72. The conductance due to ions present in one cm cube of material is known as

- Cu + Zn + Sn

- Pb + Al

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(D) Solder

(C) Gun metal

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	(A) Partial conductance	(B) Specific conductance				
	(C) Equivalent conductance	(D) Molar conductance				
73.	3. Complete the given equation of oxidation of glucose $C_6H_2O_6 + 6O_2 \rightarrow$					
	(A) $3CO_2 + 2H_2O + Kcal$	(B) 3CO ₂ + 6H ₂ O + Kcal				
	(C) 6CO ₂ + 6H ₂ O + Kcal	(D) $6CO_2 + 2H_2O + Kcal$				
74.	Which of the following fertilizer has	highest percentage of nitrogen?				
	(A) Calcium ammonium nitrate	(B) Basic calcium nitrate				
	(C) Carbamide	(D) Calcium cyanamide				
75.	75. The correct order of acid strength of $HClO_4$, HBr , HF and H_3PO_4 is					
	(A) $HClO_4 > HF > HBr > H_3PO_4$	(B) $HCIO_4 > HBr > HF > H_3PO_4$				
	(C) HClO₄ > HBr > H₃PO₄ > HF	(D) HBr > HF > HClO ₄ > H_3PO_4				
76.	76. Match the following:					
	(b) Chile nitre 2. C	um nitrate ium cyanamide nonium sulphate				
	Codes:					
	a b c d					
	(A) 2 4 1 3					
	(B) 3 1 2 4					
	(C) 4 3 2 1					
	(D) 1 2 4 3					
77.	Which of the following is used as explosive?					
	(A) Mercuric oxide	(B) Nitroglycerine				
	(C) Graphite	(D) Mercuric sulphide				
78.	NH_4^+ ion is					
	(A) A conjugate acid	(B) A conjugate base				
	(C) Neither an acid nor a base	(D) Both an acid and a base				
79.	Which of the following nitrogen-fertilizer has the highest nitrogen percentage?					

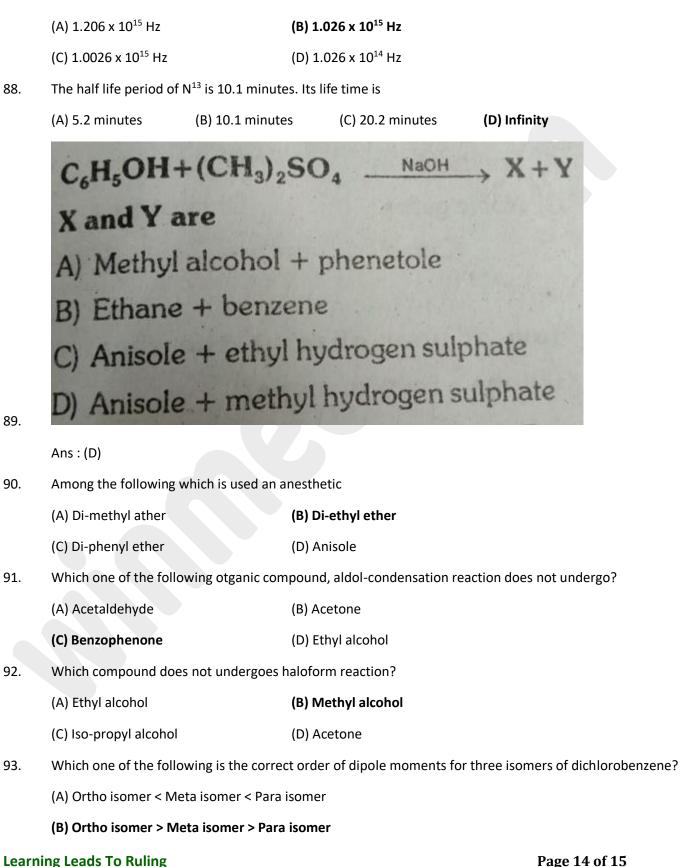
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	(A) CaCN ₂	(B) Urea	(C) NH ₄ NO ₃	(D) (NH ₄) ₂ SO ₄	
80.	Packing fraction is				
	(A) Mass number / Mass defect		(B) Mass defect / Mass number		
	(C) Mass defect / m	ass number	(D) $\frac{1}{Mass \ defect \ x \ Mass \ number}$		
81.	The precious ruby s	tones are			
	(A) Aluminium silica	te	(B) Sodium aluminium silicat	e	
	(C) Sodium silicate		(D) Alumina		
82.	82. Which of the following pairs are incorrect?				
	I) Chloroflurocarbor	ns - Refr	gerators		
	II) Methane	- Plou	ghing of fields		
III) Nitrous oxide - Enteric fermentation in cows					
	IV) Carbon dioxide	- Burr	- Burning of fossil fuels		
	(A) I and II	(B) II and III	(C) III and IV	(D) I and IV	
83.	Identify the incorrect pair:				
	I) Washing soda	1) Na	2C03		
	II) Bleaching powde	r 2) Ca(
	III) Plaster of paris	3) caS	$O_4 \frac{1}{2} H_2 O$		
	IV) Baking soda	4) Nal	HCO₃		
	(A) IO (B)	II (C) III	(D) IV		
84. What are the chemicals present in match stick?					
	(A) Red phosphorous, glue, sulphur				
	(B) Antimony sulphide, sulphur, potassium chlorate				
	(C) Antimony sulphide, red phosphorous, glue				
	(D) Antimony sulphide, phosphorous, sulphur				
85.	The metal having po	ositive Thomson ef	fect is		
	(A) Pt (B)	Ag (C) Ni	(D) Hg		
86.	The colour of Fe(OH)₃ colloid is				
	(A) Yellow	(B) Yellow ora	nge (C) Red	(D) Black	
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87. The work function of zinc is 6.8×10^{-19} J. What is the threshold frequency for emission of photo electrons from zinc?



General Science Prepared By www.winmeen.com (C) Para isomer < Ortho isomer > Meta isomer (D) Meta isomer > Ortho isomer > Para isomer Fumaric acid and Maleic acid are 94. (A) Optical isomers (B) Conformers (C) Geometrical isomers (D) Ortho and para isomers The catalyst used in Bergius process for the synthesis of petrol from coal is 95. (B) Cr_2O_3 (D) Fe₂O₃ (A) $CuCl_2$ (C) V_2O_5 Example of Lyophobic colloid is 96. (A) Sulphuric in water (B) Gelatin (D) Starch (C) Protein What type of complex reaction is, bromination of Bromobenzene? 97. (A) Sequential reaction (B) Side reaction (C) reversible reaction (D) Chain reaction 98. The signs of ΔH and ΔS respectively, for the following reaction $Cl_{2(g)} \rightarrow 2Cl_{(g)}$ (A) -, -(B) -, + (C) +, + (D) +, -99. Why steam is passed to remove away the ammonia in Haber's process (A) Standardise pressure (B) Standardise temperature (C) Standardise equilibrium (D) maximum ammonia formation 100. In the reversible reaction $2SO_{2(g)} + O_{2(g)} \rightarrow 2SO_{3(g)}$ Find the relation between K_P and K_C . (A) $K_P = K_C \times RT$ (B) $K_P = K_C x (RT)^2$

(C) $K_P \times RT = K_C$ (D) $K_P = K_C \times (RT)^{-2}$

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