Fat is a

1.

General Science Model Test Questions 14 With Answers [Chemistry - 3]

	(A) Protein	(B) Lipid		(C) Amino acid	(D) Base				
2.		s in the order of		,	, ,				
		phydrates > proteins		(R) Proteins > c	arbohydrates > fat	•			
					arbonyarates > rat				
	(C) Carbohydra	tes > fats > proteins		(D) None					
3.	Vulcanisation is	s the process of adding -		to rubber					
	(A) Iron	(B) Sulphur	(C) Car	bon	(D) Cobalt				
4.	Which one of the	he following is not a rad	ioactive	substance?					
	(A) Calcium	(B) Uranium		(C) Thorium		m			
5.	Optical isomers	s have							
	(A) Plane of syr	nmetry	(B) Centre of symmetry						
	(C) Both (A) an	d (B)	(D) Neither (A) nor (B)						
6.	The element w	ith the maximum numb	er of isot	opes in nature is	5				
	(A) Carbon	(B) Uranium		(C) Hydrogen	(D) Lead				
7.	How can a give	n colourless liquid be te	sted whe	ether it is water o	or not?				
	(A) Smelling								
	(B) Tasting								
	(C) Adding a pi	nch of anhydrous coppe	er sulpha	te					
	(D) Adding phe	nolphthalein							
8.	For what purpose is alum used by dyers of cloth?								
	(A) As first aid f	or cuts	(B) For softening hard water						
	(C) As a morda	nt	(D) For fire proofing fabrics						
9.	Polymers of am	nino acid is							
	(A) Sugar	(B) Fat	(C) Phe	nol	(D) Protein				
10. Learni	Which gas is used in the preparation of soda water? rning Leads To Ruling Page 1 of 12								

Page 2 of 12

	(A) Carbon monoxide			(B) Chlorine						
	(C) Carbon diox	ide		(D) Ammonia						
11.	Which of the fo	llowing	compounds give	s lodoform reaction?						
	(A) Acetone			(B) Benzaldehyde						
	(C) Benzopheno	ne		(D) Methyl alcohol						
12.	The oxidation n	umber d	of C in oxalic acio	d (H ₂ C ₂ O ₄) is						
	(A) 4	(B) 2	(C) 3	(D) 1						
13.	Cooking oil can	be conv	erted into veget	table ghee by the process of						
	(A) Hydrogenat	ion		(B) Crystallisation						
	(C) Oxidation			(D) Ionisation						
14.	Which is an exa	mple of	fermented beve	rage?						
	(A) Whisky ((B) Brandy	(C) Rum	(D) Wine					
15.	Oil of winter gre	een is								
	(A) Acetyl salicy	lic acid		(B) Methyl salicylate						
	(C) Ethyl salicyla	ate		(D) Benzoic acid						
16.	A part from cark	bon and	hydrogen pyridi	ne contains						
	(A) Oxygen		(B) Nitrogen	(C) Sulphur	(D) Chlorine					
17.	The chemical na	ame for	vitamin C is							
	(A) Benzoic acid			(B) Ascorbic acid						
	(C) Salicylic acid			(D) Crotonic acid						
18.	Milk is an exam	ple of								
	(A) Suspension		(B) Gel	(C) Foam	(D) Emulsion					
19.	The mass numb	er of hy	drogen is							
	(A) 2.5	(B) 1	(C) 1.8	(D) 3						
20.	Bakelite is obtai	ined fro	m							
	(A) Phenol and I	benzald	ehyde	(B) Phenol and formaldehyde						

Page 3 of 12

	(C) Phenol and acetaldehyde			(D) Phenol and acetone						
21.	During dehydra	ation the body lo	oses							
	(A) Iron	(B) Sugar	(C) Soc	lium chloride	(D) Calcium sulphate					
22.	The hormone t	hat contains iod	ine is							
	(A) Adrenaline	(B) Ins	ulin	(C) Thyroxin	(D) Testosterone					
23.	Green house e	ffect causes								
	(A) Formation	of chlorophyll in	plants	(B) Growth of plant in glass house						
	(C) Photosynth	esis in plants		(D) Heating of earth surface						
24.	The hybridizati	on of carbon in	ethane i	is						
	(A) sp ³	(B) sp ²	(C) sp	(D) dsp ²						
25.	Which is the w	eakest?								
	(A) Ionic bond			(B) Hydrogen bond						
	(C) Covalent bo	ond		(D) Metallic bond						
26.	Ornamental go	old contains								
	(A) Silver	(B) Tin		(C) Copper	(D) Manganese					
27.	Which is used t	to produce artifi	cial rain	?						
	(A) Silver nitrat	te		(B) Sand						
	(C) Silver iodid	e		(D) Copper oxide						
28.	Which metal is	involved in galv	anizatio	n process						
	(A) Copper	(B) Zin	С	(C) Tin	(D) Lead					
29.	The alcohol use	ed in the prepara	ation of	dynamite is						
	(A) Glycol	(B) Eth	yl alcoho	(C) Glycerol	(D) Methyl alcohol					
30.	Why there is a	spluttering sour	nd when	water is sprinkled on h	not oil?					
	(A) Boiling poir	nt is higher for w	ater tha	n that of oil						
	(B) Boiling poir	nt of oil is highe	r than th	nat of water						
	(C) Oil and water do not mix									

Page 4 of 12

	(D) Oil and water form a compound											
31.	Which of the fo	llowing is used as a dehy	ydrating	agent?								
	(A) HCI	(B) HNO ₃	(C) HClO ₄		(D) H ₂ [(D) H ₂ Do ₄						
32.	Wood is preserved from attack by termites by a material marked as creosote oil, this is a mixture of											
	(A) Ethyl alcoho	I & phenol	(B) Tar	(B) Tar and water								
	(C) Cresols		(D) Kerosene and tar									
33.	In gobar gas pla	nt, which one of the foll	owing gases is released?									
	(A) Hydrogen	(B) Oxygen		(C) Methane		(D) Hydrogen sulphide						
34.	The heat of neu	tralization is constant fo	or									
	(A) Strong acid	- Strong base		(B) Strong acid - weak base								
	(C) Weak acid	- Strong base	(D) Weak acid - weak base									
35.	The strength of	the solution of 4g of Na	OH in 1 litre is									
	(A) 0.01 N	(B) 0.1 N		(C) 0.2 N		(D) 1 N						
36.	The name Victor Meyer is associated with											
	(A) Distinction	of 1°, 2°, 3° alcohols	(B) Distinction of 1°, 2°, 3° amines									
	(C) Distinction o	of aldehydes and ketone	(D) None of these									
37.	A peptide is											
	(A) Polyene	(B) Polyester		(C) Polyamide		(D) Polyalcohol						
38.	The oxidation n	umber of chromium in k	C ₂ Cr ₂ O ₇	is								
	(A) 6	(B) 3 (C) 1		(D) 0								
39.	The indicator us	sed in the titration betw	een KMr	nO ₄ and FeSO ₄ is								
	(A) Phenolphtha	alein (B) Methyl orar	nge	(C) Methyl red		(D) None						
40.	ΔH =											
	(A) Δ E + Δ nRT	(B) ΔE - ΔnRT		(C) $\Delta E + RT^{\Delta n}$		(D) ΔE - RT $^{\Delta n}$						
41.	The shape of mo	ethane is										
	(A) Square plan	ar (B) Square pyra	midal	(C) Tetrahedron		(D) Octahedron						

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42. If pH = 7, pOH = ?

(A) Zero

(B) 7

(C) 14

(D) None of these

The lewis base among the following is 43.

(A) NH₃

(B) NH₄ Cl

(C) NaOH

(D) AI (OH)₃

44. The non-reducing sugar among the following is

(A) Glucose

(B) Fructose

(C) Sucrose

(D) Maltose

45. The one, which is not a colligative property, is

(A) Elevation of boiling point

(B) Viscosity

(C) Lowering of vapour pressure

(D) Osmotic pressure

46. The ion that does not cause hardness of water is

(A) Na⁺

(B) Mg²⁺

(C) CO_3^{2-}

(D) HCO₃

47. Rocket fuel is

(A) Oxygen

(B) Oxygen and methane

(C) Ozone

(D) Hydrazine and dinitrogen tetroxide

48. Match list-I with list-II correctly and select your answer using the codes given below:

List-I

List-II

d

1

2

2

2

(a) Nuclear fission

1. Helium

(b) Nuclear fusion

2. Medicine

(c) Radio isotope

3. Hydrogen bomb

(d) α -rays

4. Atomic bomb

Codes:

С

(A)

3

1

3

3

4

1

4

2

(C)

(B)

1

3

(D)

49.

4

Compound that decolorizes bromine water is

(A) Ethane

(B) Benzene

(C) Acetylene

(D) Ethanol

Page 6 of 12

50.	Power alcohol is a mixture of								
	(A) Ethyl alcohol + petr	ol	(B) Methyl alcohol + petrol						
	(C) Ethyl alcohol + meth	nyl alcohol	(D) Petrol + ether						
51.	Which one of the following is a transition element?								
	(A) Helium	(B) Sodium	(C) Copper	(D) Fluorine					
52.	The isotope ₇ N ¹⁴ contains								
	(A) 7 electrons	(B) 7 protons	(C) 7 neutrons	(D) All of these					
53.	An atom of chlorine with atomic number 17 and mass number 35, contains in its nucleus								
	(A) 18 protons	(B) 18 neutrons	(C) 35 neutrons	(D) 35 protons					
54.	tarch on hydrolysis gives								
	(A) CO ₂ and H ₂ O	(B) Fructose	(C) Sucrose	(D) Glucose					
55.	Which of the following helps the fermentation process?								
	(A) Keeping the temperature of the reaction low								
	(B) Leaving the reaction for a few days								
	(C) Heating the reaction								
	(D) Adding enzymes								
56.	Mehylated spirit is								
	(A) Ethyl alcohol containing 5% methyl alcohol (B) 100% methyl alcohol								
	(C) 95% ethanol (D) Absolute alcohol								
57.	Stainless steel is an allo	y of							
	(A) Steel + chromium +	nickel (B) Stee	el + silver + nickel						
	(C) Steel + nickel + aluminium (D) Steel + chromium + aluminium								
58.	Diabasic acid is								
	(A) Acetic acid	(B) Phosphoric acid	(C) Sulphuric acid	(D) Nitric acid					
59.	Element which is an end	emy of copper is							
	(A) Sulphur	(B) Carbon	(C) Chlorine	(D) Nitrogen					

Page 7 of 12

60.	Which one of the following is a chemical reaction?									
	(A) Sublimation	of campl	camphor		(B) Combustion of carbon					
	(C) Melting of ice			(D) Diss	olution of sugar	in wate	r			
61.	The element us	sed in lead	d pencils is							
	(A) Carbon		(B) Zinc	(C) Lead		(D) Tin				
62.	Carbon monoxi	ide is								
	(A) Acidic		(B) Basic	(C) Neu	tral	(D) Am	photeric			
63.	The amount of nitrogen present in the atmospheric air is about									
	(A) 58% (B) 78%		(C) 98%	6 (D) 68%						
64.	Molecular weig	$ght = \alpha \times v$	apour density	is						
	(A) 1 (B)		(C) 3		(D) 4					
65.	Metal ore, gale	na contai	ns							
	(A) Silver		(B) Zinc	(C) Lead		(D) Magnesium				
66.	DDT is an									
	(A) Insecticide		(B) Explosive		(C) Antibiotic		(D) Enzyme			
67.	Rare gases are									
	(A) Di-atomic		(B) Tri-atomic	(C) Mono-atomic			(D) None of the above			
68.	Iodine with sta	rch gives t	the colour whic	ch?						
	(A) Red	(B) Yello	w	(C) Pink	(D) Blu	e				
69.	Bleaching power	der contai	ns							
	(A) Chlorine	((B) Bromine		(C) Iodine		(D) Nitrogen			
70.	i) A physical cha	ange alert	s the composit	tion of th	e substance					
	ii) A reaction w	hich prod	uces heat is ca	lled exot	hermic reaction					
	(A) False, true	((B) True, false		(C) False, false		(D) True, true			
71.	i) α -particle is i	dentical to	o hydrogen nu	clei						
	ii) Normal solution contains 1gm molecular weight of the solute per litre									

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- (A) True, false
- (B) False, true
- (C) False, false
- (D) True, true

- 72. Match the following using the codes given below:
 - (a) Hypo

1. Silica

(b) Quartz

2. Thiosulphate

(c) Brine

3. Aluminium ore

(d) Bauxite

4. Sodium chloride

Codes:

- а
- (A) 2

1

- (B) 1
- 3
- 4

d

3

- (C)

4

- 3
- 2
- (D) 3
- 2
- 4 1
- 73. Match the following using the codes given below:
 - (a) Uranium

1. Liquid metal

(b) Graphite

2. Radio activity

(c) Mercury

3. Alloy

(d) Steel

4. Pencil

Codes:

а 1

2

C

1

- (A)
- b 2

2

3 4

d

1

- (B)
- 4
- 3
- (C) 4
- 3
- 2 1

- (D) 3
- Match the following using the codes given below: 74.
 - (a) Caffine

1. Tobacco

(b) Opium

2. Coffee

(c) Nicotine

3. Cinchona

(d) Quinine

4. Poppy

Codes:

а

1

- 2
- 3

(B)

(A)

- 2
- 3
- 4
 - 1

d

4

Page 9 of 12

	(C)	2	4	1	3						
	(D)	4	3	1	2						
75.	Which of the following atmospheric gases is in highest percentage?										
	(A) Carbon dioxide (B) Oxy				gen	(C) Ozo	one	(D) Nitrogen			
76.	Gas used to harden oils in the preparat						naspathi				
	(A) Oxygen		(B) Nitrogen			(C) Hydrogen		(D) Carbondioxide			
77.	The te	rm PVC ເ	used in t	he plast	ic indust	ry stand:	s for				
	(A) Pol	yvinyl ca	ırbonate			(B) Polyvinyl chloride					
	(C) Phosphavinyl chloride						(D) Phosphor vanadium, chloride				
78.	The bo	iling poi	nt of wa	ter on tl	he Kelvin	scale					
	(A) 270° K		(B) 373° K			(C) 100° K		(D) 212° K			
79.	For dri	nking pu	irpose w	ater car	n be purif	fied by					
	(A) Distillation (B) Filtr		ration	(C) Chlorination			(D) Sedimentation				
80.	The ha	rdest va	riety of o	carbon i	S						
	(A) Coa	al	(B) Cha	rcoal		(C) Diamond (D) Leeco					
81.	The poisonous gas produced by a Motor car										
	(A) Car	bon mo	noxide			(B) Methyl isocyanate					
	(C) Car	bon disu	ılphate			(D) Nitrous oxide					
82.	What is the "lead" of a lead pencil made of?										
	(A) Car	bon		(B) Stone		(C) Graphite			(D) Lampblack		
83.	The ter	ndency o	of similar	molecu	ules to st	ick toget	ther is known as				
	(A) Gravitation		(B) Adl	(B) Adhesion		(C) Cohesion		(D) Assimilation			
84.	Hydrog	gen bom	b is base	ed on th	e princip	le of					
	(A) Nuclear fission					(B) Nuclear reaction					
	(C) Nuc	clear exp	olosion			(D) Non-nuclear fission					
85.	Estima	tion of n	itrogen	is done	by						

Page 10 of 12

(A) Carius method (B) Kassaigne's method (C) Soda – lime test (D) Kjeldahl's method 86. 95% alcohol is known as (A) Absolute alcohol (B) Rectified spirit (C) Meethylated spirit (D) Power alcohol 87. Bleaching action of chlorine is by (A) Oxidation (B) Reduction (C) Hydrolysis (D) Decomposition Match list-I with list-II correctly and select your answer using the codes given below: 88. List-I List-II (a) Dolomite 1. Zinc (b) Calamine 2. Magnesium (c) Malachite 3. Copper (d) Cryolite 4. Lead Codes: d а 2 4 3 (A) 1 (B) 1 4 2 3 (C) 2 1 3 (D) 2 1 3 4 89. Match list-I with list-II correctly and select your answer using the codes given below: List-I List-II (a) Brass 1. Copper and tin (b) Bronze 2. Copper and zinc (c) Solder 3. Steel and nickel (d) Invar 4. Tin and lead 5. Copper and nickel Codes: а С d (A) 2 5 3 2 3 (B) 1 4 2 5 (C)

Page 11 of 12

	(D)	2	1	4	3						
90.	Which of the following pair is/are correctly matched?										
	1) Natu	ıral fibre	9		- Cottor	1					
	2) Natu	ıral rubl	oer		- Thiokol						
	3) Synt	hetic fib	ore		- Nylon						
	4) Synthetic detergent				- Soap						
	(A) 1 &	3		(B) 2 &	(B) 2 & 3		(C) 3 & 4		(D) 2 & 4		
91.	Which	one of t	he follov	ving gas	es is reac	lily solu	ble in water at	room ten	nperature?		
	(A) Chlo	A) Chlorine (B) ((B) Car	rbon dioxide		(C) Ammonia		(D) Nitrogen		
92.	Which	one of t	he follov	ving und	lergoes p	olymeri	zation to form	a plastic?			
	(A) Methane			(B) Acetic acid			(C) Ethanol		(D) Ethylene		
93.	Which	by prod	uct is ob	tained ir	n the mai	nufactui	re of soap from	oils?			
	(A) Fats	5	(B) Gly	cerine		(C) sodi	ium chloride	(D) Soc	lium hydroxide		
94.	Which one of the following properties is not a characteristic of a metal?										
	(A) It forms acidic oxides					(B) It ca	ın be beaten ir	to sheets			
	(C) It is good conductor of heat						orms positive ic	ons by los	s of electrons		
95.	Which one of the following combinations would liberate carbon dioxide gas?										
	(A) Calcium carbide + water										
	(B) Calcium carbonate + water										
	(C) Calcium carbonate + dilute hydrochloric acid										
	(D) Calcium hydroxide + dilute hydrochloric acid										
96.	Ethane and ethylene may be distinguished by using a few drops of										
	(A) Litn	nus solu	tion			(B) Bro	mine water				
	(C) Lime water				(D) Dilute hydrochloric acid						
97.	The per	rcentag	e of oxyg	en pres	ent in air	by volu	me is				
	(A) 0.59	%		(B) 20.	5%		(C) 27.8%		(D) 78.5%		

98. Which one of the following requires a solvent other than water dissolve it?

(A) Sugar

(B) Common salt

(C) Dissolved gases

(D) Sulphur

99. The filter beds at water works remove most of the

(A) Bacteria

(B) Solutes

(C) Dissolved gases

(D) Suspended solids

100. The lowest percentage of carbon is present in

(A) Galvanised iron

(B) Pig iron

(C) Cast iron

(D) Steel