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PG DEPARTMENT OF CHEMISTRY

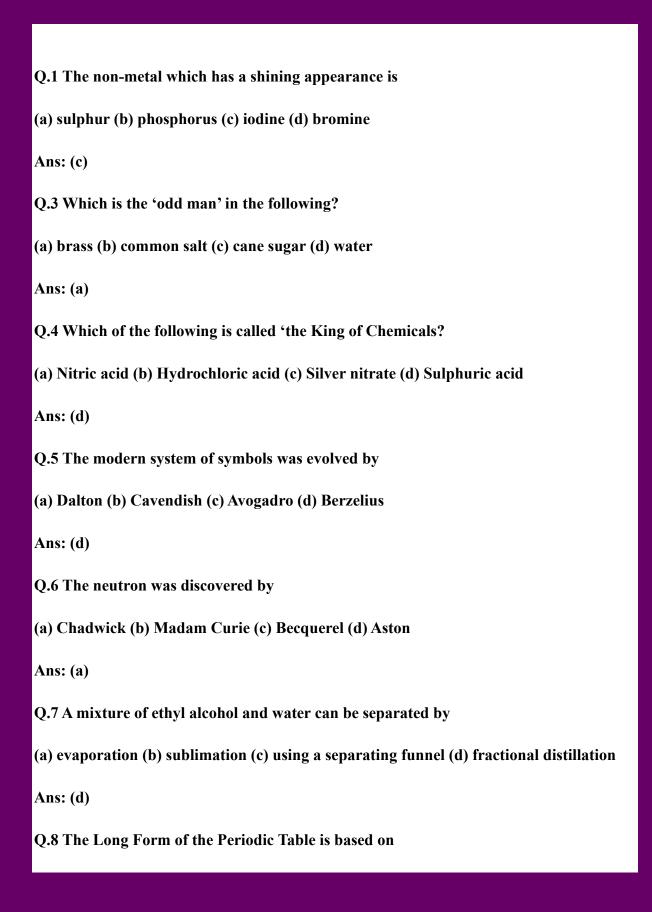
LEARNING RESOURCES

CHEMISTRY FOR COMPETITIVE EXAMINATIONS



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CHEMISTRY FOR COMPETITIVE EXAMINATIONS



(a) atomic number (b) valency (c) atomic mass (d) atomic radius
Ans: (a)
Q.9 The term 'nucleons' apples to
(a) neutrons (b) protons (c) protons and neutrons (d) protons and electrons
Ans: (c)
Q. 10 Isotopes differ in the number of
a) Protons b) Neutrons c) Electrons d) Protons and electrons
Ans: (b)
Q.11 Radium was isolated from
(a) galena (b) dolomite (c) sylvine (d) pitchblende
Ans: (d)
Q.12 Real gases tend to become ideal Under
(a) low pressure and high temperature (b) low pressure and low temperature (c) high pressure and low temperature (d) high pressure and high temperature
Ans: (a)
Q.13 The Combined Gas Law equation is
(a) P1V1T1 = P2 V2 T2 (b) P1V1T2 = P2V2T1 (c) P = P1 + P2 + P3 (d) C =
Ans: (b)
Q.14 The value of Avogadro Number is
(a) 6.023 x 1022 (b) 1 x 10-14 (c) cl 6.056 x 10-6 (d) 6.023 x 1023
Ans: (d)
Q.15 The addition of a neutron to the nucleus of an atom
(a) increases the atomic mass of the atom

(b)decreases the atomic mass of the atom
(c) increases the charge on the nucleus
(d) decreases the charge on the nucleus
Ans: (a)
Q.16 Which of the following is a halogen?
(a) Radon (b) Astatine (c) Cesium (d) Ruthenium
Ans: (b)
Q.17 Which among the following is a metalloid?
(a) Tin (b) Silver (c) Iodine (d) Arsenic
Ans: (d)
Q.18 A non-metal which is a good conductor of electricity is
(a) graphite (b) phosphorus (c) sulphur (d) iodine
Ans: (a)
Q.19 An element which is preserved under water is
(a) Sodium (b) red phosphorus (c) white phosphorus (d) sulphur
Ans: (c)
Q.20 Quick lime has the formula
a) CaO b) Ca(OH)2 c) NaOH d) Na2CO3
Ans: (a)
Q.21 'Hypo' is
(a) sodium nitrate (b) Potassium nitrate (c) sodium thiosulphate (d) ammonium chloride
Ans: (c)

Q.22 The compound used in photography is
(a) ammonium dichromate (b) copper Sulphate (c) magnesium Sulphate (d) sodium thiosulphate
Ans: (d)
Q.23 Brine is a solution of
(a) sodium chloride in water (b) iodine in alcohol (c) sulphur in carbon disulphide (d) Potassium iodide in water
Ans: (a)
Q.24 Which of the following is a Bleaching agent?
(a) Potassium chlorate (b) Hydrogen peroxide (c) Copper sulphate (d) Silver Nitrate
Ans: (b)
Q.25 Alum is used
(a) as an analgesic (b) in the purification of water (c) as a fertilizer (d) as a disinfectant
Ans: (b)
Q.26 Lunar caustic is
(a) calcium sulphate (b) ammonium chloride (c) caustic soda (d) silver nitrate
Ans: (d)
Q.27 The formula for cane sugar is
(a) C6H12O6 (b) C2H5OH (c) C12H22O11 (d) C7H8O
Ans: (c)
Q.28 Which of the following is not a chemical change?
(a) Burning of magnesium ribbon in air (b) Distillation of water (c) Heating of cane sugar (d) Setting of cement
Ans: (b)

Q.29 The process that takes place in the atom bomb is
(a) nuclear' fusion (b) radioactive disintegration (c) nuclear fission (d) chemical decomposition
Ans: (c)
Q.30 Which of the following is not a metal?
(a) Lithium (b) Helium (c) Sodium (d) Cobalt
Ans: (b)
Q.31 Solid carbon dioxide is used
(a) as a drying agent (b) as a refrigerant (c) as an antiseptic (d) as a bleaching agent
Ans: (b)
Q.32 A burning substance which continues to burn in a jar of carbon dioxide is
(a) zinc (b) red phosphorus (c) magnesium (d) sulphur
Ans: (c)
Q.33 The first organic compound prepared in the laboratory was
(a) acetic acid (b) chloroform (c) urea (d) methane
Ans: (c)
Q.34 Marble is (a) calcium carbonate
(b) sodium carbonate (c) magnesium sulphate (d) ferric chloride
Ans: (a)
Q.35 Compounds containing only carbon and hydrogen are called
(a) carbohydrates (b) carbides (c) hydrocarbons (d) carbonyls
Ans: (c)
Q.36 The form of carbon used in the decolourising sugar solution is

(a) wood charcoal (b) animal charcoal (c) coconut charcoal (d) lamp black
Ans: (b)
Q.37 Artificial diamonds were produced by
(a) Moissan (b) Davy (c) Faraday (d) Marie Curie
Ans: (a)
Q.38 Marsh gas is
(a) ethane (b) ethylene (c) acetylene (d) methane
Ans: (d)
Q.39 The oldest known organic compound is
(a) urea (b) methane (c) acetic acid (d) benzene
Ans: (c)
Q.40 Vinegar is the trade name for
(a) chloroform (b) acetic acid (c) phenol (d) carbon tetrachloride
Ans: (b)
Q.41 The scientist who synthesised the first organic compound (urea) in the laboratory was
(a) Wohler (b) Dalton (c) Lavoisier (d) Fischer
Ans: (a)
Q.42 Methylated spirit is a mixture of
(a) methyl alcohol and acetic acid (b) methyl alcohol and ethyl alcohol (c) ethyl alcohol and pyridine (d) methyl alcohol and pyridine
Ans: (b)
Q.43 Which of the following is used as a food preservative?

(a) phenol (b) washing soda (c) absolute alcohol (d) vinegar
Ans: (d)
Q.44 Which of the following is baking soda?
(a) Na2CO3 . 10H2O (b) NaHCO3 (c) Na2CO3 . H2O (d) NH4CI
Ans: (b)
Q.45 The carbon cycle ensures that
(a) the percentage of carbon dioxide in the air is kept almost constant
(b)air always contains a constant proportion of oxygen
(c) sufficient amounts of carbohydrates are produced
(d) the process of photosynthesis proceeds smoothly
Ans: (a)
Q.46 The simplest hydrocarbon is
(a) benzene (b) methane (c) ethane (d) butane
Ans: (b)
Q.47 During fermentation, the by-product is
(a) ethyl alcohol (b) methyl alcohol (c) carbon monoxide (d) carbon dioxide
Ans: (d)
Q.48 If people sleep in closed rooms where the charcoal fire is burning, they die due to
(a) carbon monoxide (b) carbon dioxide (c) methane (d) phosgene
Ans: (a)
Q.49 Carbogen is used in
(a) CO2 poisoning (b) CO poisoning (c) phosgene poisoning (d) anaesthesia

Ans: (b)						
Q.50 So	da-water	r contains				
(a) sodi	um bicar	bonate (b) so	dium c	arbonate (c) ca	rbonic acid (d) sodium	hydroxide
Ans: (c)						
	Alkali me		ed good		ts. This implies that:	ala atua ya
[A]	The	They	4	easily	capture	electrons
[B]	They	are Thoy	not	stable easily	at room lose	temperature electrons
[C] [D] The	v don't a	They act with dilute	e acids	easily	1086	elections
Hide Ar		ct with dilute	cacius			
		: C [They eas	ilv lose	electrons l		
		- •	•	on-metallic min	eral?	
[A]	on or the	iono wing is i	100 11 110		C1 U1.	Mica
[B]						Bauxite
[C]						Granite
[D] Silic	ea					
Hide Ar	iswer					
Correct	Answer:	B [Bauxite]				
			resente	d by which amo	ong the following symbo	ols?
[A]	•	-		•	0 ,	P1
[B]						P2
[C]						P3
[D] P4						
Hide Ar	iswer					
Correct	Answer:	: D [P4]				
			ated no	or destroyed." T	This principle was given	by?
[A]						Avogadro
[B]						Dalton
[C]						Rutherford
[D] Niel	s Bohr					
Hide Ar	iswer					
Correct	Answer:	B [Dalton]				
55.Whi	ch among	g the followin	g is kn	own as Quick I	Lime?	
[A]						CaO
[B]						CaCO2
[C]						Ca(OH)2
[D] CaC						
Hide Ar						
Correct	Answer:	: A [CaO]				

Ooi	e is used to purify wa	ter. Which among	the following
properties of Potassium per	1 0		_
[A]	_		sterilizing
[B]			oxidizing
[C]			reducing
[D] leaching			
Hide Answer			
Correct Answer: B [oxidizin	gl		
57. Which among the followi	·-	etergents?	
[A]			Sulphate
[B]			Nitrate
[C]			Sulphonate
[D] Carbonate			•
Hide Answer			
Correct Answer: A [Sulphat	el		
58. Why most of the aromati	=	a sootv flame?	
· ·	n-hydrogen ratio in	aromatic compou	nds is high
[B] Because of the	presence of the	strong carbon-ca	U
[C] Because,	hydrocarbons	are	unsaturated
[D] Because the carbon-hyd	•		unstrue
Hide Answer	Ogon I wow and the committee	mpound 20 20	
Correct Answer: A Becaus	the carhon-hydrogen ra	tio in aromatic comp	ounds is high]
59. Which among the follow	•	-	~ .
disorder?	ing impurity in arimon-	Watti tauses the	amood Spins
[A]			Nitrate
[B]			
ועון			
			Fluorides
[C]			
[C] [D] Sulphides			Fluorides
[C] [D] Sulphides Hide Answer	asl		Fluorides
[C] [D] Sulphides Hide Answer Correct Answer: B [Fluorid	•	cila matarial is diffa	Fluorides Arsenic
[C] [D] Sulphides Hide Answer Correct Answer: B [Fluoride 60.With reference to the new control of the new c	•	sile material is diffe	Fluorides Arsenic
[C] [D] Sulphides Hide Answer Correct Answer: B [Fluoride 60.With reference to the new Fertile	iclear fuels, how the Fis		Fluorides Arsenic erent from the material?
[C] [D] Sulphides Hide Answer Correct Answer: B [Fluoride 60.With reference to the number for the first of t	iclear fuels, how the Fis		Fluorides Arsenic erent from the material?
[C] [D] Sulphides Hide Answer Correct Answer: B [Fluorid 60.With reference to the non- Fertile 1. While Fissile material unfusion	dergoes nuclear fission,	Fertile material undo	Fluorides Arsenic erent from the material? ergoes nuclear
[C] [D] Sulphides Hide Answer Correct Answer: B [Fluoride 60.With reference to the new Fertile 1. While Fissile material under fusion 2. While Fissile material can	dergoes nuclear fission,	Fertile material undo	Fluorides Arsenic erent from the material? ergoes nuclear
[C] [D] Sulphides Hide Answer Correct Answer: B [Fluoride 60.With reference to the new Fertile 1. While Fissile material und fusion 2. While Fissile material can nuclear	dergoes nuclear fission, leading to the directly used, Fertile 1	Fertile material undo	Fluorides Arsenic Frent from the material? Ergoes nuclear
[C] [D] Sulphides Hide Answer Correct Answer: B [Fluorid 60.With reference to the m Fertile 1. While Fissile material un fusion 2. While Fissile material can nuclear Choose the correct option fr	dergoes nuclear fission, leading to the directly used, Fertile 1	Fertile material undomaterial can not be u	Fluorides Arsenic erent from the material? ergoes nuclear used directly in reactors
[C] [D] Sulphides Hide Answer Correct Answer: B [Fluorid 60.With reference to the nefertile 1. While Fissile material unfusion 2. While Fissile material can nuclear Choose the correct option fr [A] Only	uclear fuels, how the Fis dergoes nuclear fission, I be directly used, Fertile I om the codes given below 1	Fertile material undomaterial can not be u : is	Fluorides Arsenic erent from the material? ergoes nuclear used directly in reactors correct
[C] [D] Sulphides Hide Answer Correct Answer: B [Fluorid 60.With reference to the material 1. While Fissile material unfusion 2. While Fissile material can nuclear Choose the correct option fr [A] Only [B] Only	dergoes nuclear fission, leading the directly used, Fertile leads om the codes given below the codes given the codes g	Fertile material undo material can not be u : is is	Fluorides Arsenic erent from the material? ergoes nuclear used directly in reactors correct
[C] [D] Sulphides Hide Answer Correct Answer: B [Fluorid 60.With reference to the material 1. While Fissile material unfusion 2. While Fissile material can nuclear Choose the correct option fr [A] Only [B] Only [C] Both	dergoes nuclear fission, leading the directly used, Fertile leading the codes given below the codes given belo	Fertile material undomaterial can not be u : is	Fluorides Arsenic erent from the material? ergoes nuclear used directly in reactors correct
[C] [D] Sulphides Hide Answer Correct Answer: B [Fluorid 60.With reference to the material 1. While Fissile material unfusion 2. While Fissile material can nuclear Choose the correct option fr [A] Only [B] Only	dergoes nuclear fission, leading the directly used, Fertile leading the codes given below the codes given belo	Fertile material undo material can not be u : is is	Fluorides Arsenic erent from the material? ergoes nuclear used directly in reactors correct

Question: 1

61. Which one of the following is not a constituent in automobile emission?

(A) Benzene
(B) Nitrogen oxide
(C) Carbon monoxide
(D) Hydrogen peroxide
<u>View Answer</u>
Ans: D
Hydrogen peroxide
Question: 2
62.The most abundant metal in the earth's crust is
(A) Aluminium
(B) Zinc
(C) Copper
(D) Iron
<u>View Answer</u>
Ans: A
Aluminium
63.Question: 3
63.Which among the following is used as a catalyst in the production of high
octane fuels?
(A) HCL
(B) HF
(C) HNO₃
(D) H ₂ SO ₄
<u>View Answer</u>
Ans: D

H ₂ SO ₄
64.Question: 4
64.The metal used in storage batteries is
(A) Lead
(B) Tin
(C) Copper
(D) Iron
<u>View Answer</u>
Ans: A
Lead
65.Minerals are deposited and accumulated in
(A) Igneous rocks
(B) Metamorphic rocks
(C) Sedimentary rocks
(D) None of the above
<u>View Answer</u>
Ans: C
Sedimentary rock