

CHEMISTRY

BOOKS - SURA CHEMISTRY (TAMIL ENGLISH)

NEET BASED QUESTIONS

Neet Based Questions

- **1.** Rutherford's alpha-particle scattering experiment eventually led to the conclusion that
 - A. Mass and energy are related
 - B. Electron occupy space around the nucleus
 - C. Neutrons are buried deep in the nucleus

D. The point of impact with matter can be precisely determined.

Answer: B



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2. The number of α and β -prticles emitted in the nuclear rection

$$_{90}Th^{228}
ightarrow {}_{83}Bi^{212}.$$

- A. Four alpha and one beta
- B. Three alpha and seven beta
- C. Eight alpha and one beta
- D. One alpha and four beta

Answer: A



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- 3. Principal quantum number determines
 - A. Size of the electron wave and energy of electron
 - B. Orbital angular momentum
 - C. Shape of the electron cloud
 - D. Configuration of orbitals in space

Answer: A



- 4. Corrct electronic configuration of Cr is
 - A. $1s^22s^22p^63s^23p^{10}3d^54s^1$
 - $\mathrm{B.}\, 1s^22s^22p^63s^2,\, 3d^84s^0$
 - $\mathsf{C.}\, 1s^2 2s^2 2p^6 3s^2 3p^6 3d^5 4s^1$
 - D. $1s^22s^22p^63p^03d^54s^1$

Answer: C



- **5.** The bond order of individual coarbon-corbon bond in benzene is
 - **A.** 1

- B. 2
- C. Between 1 and 2
- D. 1 and 2, alternatively

Answer: D



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- **6.** Hybridisation of sulphur in SO_2 is
 - A. sp
 - $\mathsf{B.}\,sp^3$
 - $\mathsf{C.}\,sp^2$
 - D. dsp^2

Answer: C

7. Hybridisation states of carbon in diamond, graphite and acetylene respectively, are

A.
$$sp^2,\,sp,\,sp^3$$

$$\mathsf{B.}\, sp,\, sp^2,\, sp^3$$

C.
$$sp^3, sp^2, sp$$

D.
$$sp, sp^3, sp$$

Answer: C



8. $NaHCO_3$ decomposes into:

$$2NaHCO_{3\,(\,s\,)} \Leftrightarrow Na_2CO_{3\,(\,s\,)} \, + CO_{2\,(\,g\,)} \, + H_2O_{\,(\,g\,)}$$

The equilibrium pressure is 1.04 atm the K_p for the reaction is

A.
$$0.2704 \ atm^2$$

B.
$$2.704 \ atm^2$$

C.
$$27.04 \ atm^2$$

D.
$$270.4 \ atm^2$$

Answer: A



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9. For the reaction

$$H_{2\hspace{0.05cm}(\hspace{0.05cm}g\hspace{0.05cm})}\hspace{0.1cm} + l_{2\hspace{0.05cm}(\hspace{0.05cm}g\hspace{0.05cm})}\hspace{0.1cm} \Leftrightarrow 2Hl_{\hspace{0.05cm}(\hspace{0.05cm}g\hspace{0.05cm})}$$

 $Kc=66.9~{
m at}~350^{\circ}C$ and $50.0~{
m at}~448^{\circ}$. The reaction has

A.
$$\triangle H + ve$$

B.
$$\triangle H = -ve$$

C.
$$\triangle H = {\sf zero}$$

D. None of these

Answer: B



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10. A mixture of SO_3 , SO_2 and O_2 gases in a 10.0 litre flask is maintained at a temperature at which the equilibrium constant Kc of the reaction is 100.

$$2SO_{2\,(\,g\,)}\,+O_{2\,(\,g\,)}\,\Leftrightarrow 2SO_{3\,(\,g\,)}$$

. If the number of moles of SO_2 and SO_3 in the flask are equal, the number of moles of O_2 present is

- A. 0.01
- B. 0.1
- C. 1.0
- D. 10.0

Answer: B



11. For the reaction

$$C_{(s)} + CO_{2(g)} \Leftrightarrow 2CO_{(g)}$$

the partial pressures fo CO_2 and CO are 2.0 and 4.0 atm respectively at equilibrium. Kp for the reaction is

- A. 0.5
- $\boldsymbol{\mathsf{B.8.0}}$
- $\mathsf{C.}\,4.0$
- D. 32

Answer: B



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12. For the reversible reaction

$$2H_2S_{(g)} \Leftrightarrow 2H_{2(g)} + S_{2(g)}$$

The equilibrium concentrations, are

$$[H_2S]=0.5\, \mathsf{mole/litre}$$

$$\left[H_{2}
ight]=0.4$$
 mole/litre

 $\left[S_{2}
ight]=0.4$ mole/litre

The value of 'K' would be

A. 0.004 mole/litre

B. 0.08 mole/litre

 ${\sf C.}~0.016~{\sf mole/litre}$

D. 0.16 mole/litre

Answer: C



13. 'The molecularity of a reaction can be 0,1,3 etc." The statement is

A. 1

B.

C. Both the above

D. None of these

Answer: B



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14. For first order reation the ratio of $t_{0.75}$ to $t_{0.25}$ would be

A. 4:3

B.3:2

C. 2:1

D. 1, 2

Answer: C



15. which is the first order reaction?

A.
$$NH_4NO_2
ightarrow N_2+2H_2O$$

B.
$$2Hl
ightarrow H_2 + l_2$$

C.
$$2NO_2
ightarrow 2NO + O_2$$

D.
$$2NO + O_2
ightarrow 2NO_2$$

Answer: A



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16. Which of the following aqueous solutions of sodium aceate will show a minimum pH?

A. 0.01 M

 $B. \, 0.001 \, M$

 $C. \ 0.0001 \ M$

 $D.\,0.1\,M$

Answer: C



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17. Pure water dissociates to a small extent as per equilibrium

$$2H_2O_{\,(\,i\,)} \, \Leftrightarrow H_3O_{\,(\,eq\,)}^{\,+} \, + OH_{\,(\,eq\,)}^{\,-}$$

The pH of pure water at 298 K is 7, what will be pH of pure water at 310 K?

A. 0

B. < 7

C. > 7

D. 7

Answer: B



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18. A solution has pH=3. If its hydrogen ion concentration is decreased 1000 times, the pH of the solution will be

A. 6

B. 0

C. 3

D. None of these

Answer: A



19. The brown ring compound is formulated as

$$igl[Fe(H_2O)_5.\ NOigr]SO_4.$$
 The oxidation number of iron is

- A. + 1
- B. 2
- C. 3
- D. 0

Answer: A



20. In the reaction $l_2+2Na_2S_2O_3 o Na_2S_4O_6+2Nal$ the equivalent weight of oxidant is [M= Molecular weight of oxidant]-

A.
$$\frac{M}{2}$$

B. M

$$\mathsf{C.}-\frac{M}{2}$$

D. 2M

Answer: A



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21. Active mass is

A. gm moles per unit volume

- B. gm atoms per unit volume
- C. gm atomic number per unit volume
- D. gm equivalent per unit volume

Answer: A



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- 22. An acid solution may have the pH
 - A. 1

B. 3

- C. 0
- D. 12

Answer: D



23. The process of converting hydrated alumina to anhydrous alumina is called

A. Calcination

B. Smelting

C. Rosting

D. Concentration

Answer: A



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24. Auto-reduction is used in the extraction of

A. Copper B. Zinc C. Iron D. Aluminium **Answer: A View Text Solution** 25. What is the percentage of silver in german silver? A. 2.5%B. 1.5% $\mathsf{C}.\,10\,\%$ D.0%

Answer: D



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26. Metals present in gun metal are

A. Cu, Zn and Ni

B. Cu,Sn and Zn

C. Cu,Sn

D. Cu,Al

Answer: B



27.	Alkaliı	ne ea	irth i	metals	are
_,,	,				<i>-</i>

- A. Reducing agent
- **B.** Oxidising agent
- C. Amphoteric
- D. Acidic

Answer: A



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28. Oil of vitriol is

- A. $PbSO_4$
- B. $ZnSO_{4.7}H_2O$

C. $CuSO_{4.5}H_2O$

D. H_2SO_4

Answer: D



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moment?

29. Which of the following ions has maximum magnetic

A. $Cu^{+\,+}$

B. Mn^{++}

C. Ti^{++}

D. $Zn^{+\,+}$

Answer: B

30. H_2O_2 and heavy water were discovered respectively by

A. Thenard, Urey

B. Urey, Rutherford

C. Aston, Urey

D. Aton, Chadwick

Answer: A



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31. Which of the following compounds on reaction with

 H_2SO_4 gives H_2O_2 ?

A. PbO_2
B. MnO_2
C. SnO_2
D. BaO_2
Answer: D
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32. Boron compounds behave as lewis acid because of their
A. Acidic nature
B. Covalent nature
C. Electron deficiency

D. Ionizing property

Answer: C



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33. Ordinary glass is

- A. Sodium silicate
- B. Calcium silicate
- C. Calcium and Sodium silicate
- D. Copper silicate

Answer: C



34. Blue glass is obtained by adding

 $\mathsf{A.}\ SeO$

 $\mathsf{B.}\ CoO$

 $\mathsf{C.}\ CdS$

D. MnO_2

Answer: B



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35. On strong heating $Pb(NO_3)_2$ gives

A. O_2

B. NO_2

$$\mathsf{C.}\,NO_2 + O_2$$

D. *NO*

Answer: C



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36. Which of the following is formed when oxalic acid is dehydrated by conc. H_2SO_4 ?

A.
$$CO+CO_2$$

B. *CO*

 $C.CO_2$

D. None of these

Answer: A



37. Chlorine is manufactured by

A. Birkland and Eyde's process

B. Deacon's process

C. Bosch's process

D. Solvay's process

Answer: B



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38. Aniline is purified by

A. Steam distillation B. Simple distillation C. Distillation uder reduced pressure D. Distillation **Answer: A**



39. Ethylene can be prepared by electrolysis of an equeous solution of

- A. Sodium acetate
- B. Sodium succinate
- C. Sodium fumarate

D. Sodium propionate

Answer: B



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- 40. Photochemical chlorination of alkanes is initiated by a process of
 - A. Pyrolysis
 - **B.** Substitution
 - C. Homolysis
 - D. Peroxidation

Answer: C



41. On cracking petrol we get

A. CH_4

B. C_3H_6

C. Both A and B

D. $CH_3 + CH_4 + C_2H_6 +$ alcohols

Answer: C



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42. CCl_4 does not give a precipitate with $AgNO_3$ be because

A. It forms complex with $AgNO_3$

- B. Cl_2 gas is evolved
- C. Chloride ions are not formed
- D. $AgNO_3$ does not give $Ag^{\,+}\,$ ions

Answer: C



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- **43.** The oxygen atom in a either molecule is
 - A. Very active
 - B. Replaceable
 - C. Comparatively inert
 - D. Active

Answer: C

44. Schiff's regeant gives colour with

A. Alcohols

B. Acetaldehyde

C. Acetone

D. Mesitylene chloride

Answer: B



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45. In a chemical reaction

 $K_2Cr_2O_7 + xH_2SO_4 + ySO_2
ightarrow K_2SO_4 + Cr_2(SO_4)_3 + zH_2O_4$

the values of x,y and z are

A. 1, 3, 1

B. 4, 1, 4

 $\mathsf{C.}\ 3,\ 2,\ 3$

D. 2, 1, 2

Answer: A



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46. The number of molecules present in one gm of hydrogen, is

A. $1.5 imes 10^{23}$

B. 30.1×10^{23}

C. $6.02 imes 10^{23}$

D. 3.01×10^{23}

Answer: D



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47. The maximum number of electrons in a sub-shell for which

A. 4

I=3, is

. .

B. 6

C. 8

D. 14



 $\ddot{e}=2000\dot{A}~{
m to~that~of}~\ddot{e}=4000\dot{A}~{
m is}$

A.
$$\frac{1}{2}$$
B. $\frac{1}{4}$

$$\frac{1}{4}$$

D. 4

Answer: C



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49. The correct set of quantum numbers for the unpaired electron of chlorine atom is

A.
$$n = 2, l = 1, m = 0$$

B.
$$n = 2, l = 1, m = 1$$

C.
$$n = 3, l = 1, m = 1$$

D.
$$n = 3, l = 0, m = 0$$

Answer: C



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50. The hydrogen phosphate of a metal has the formula

 $M_2(HPO_4)_3$, the formula of metal nitrate will be

A. MNO_3

B. $M(NO_3)_2$

C. $M(NO_3)_3$

D. $M_2(NO_3)_2$

Answer: C



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51. The first ionization potentials of Na,Al,Mg and Si are in sequence

A. Na>Mg>Al>Si

B. Na < Mg < Al < Si

C. Na < Si < Al < Mg

D. Na < Al < Mg < Si

Answer: D



52. Which of the following decreases in going down the halogen group?

- A. Atomic radius
- B. Ionic radius
- C. Ionization potential
- D. Boiling point

Answer: C



- **53.** Which of the following statements is correct?
 - A. All metal nitrates are soluble in water
 - B. Solubility of metal nitrates is least in water
 - C. Nitrates of alkaline earth elements are insoluble in water
 - D. Nitrates of alkali metal do not give the test of nitrate ion

Answer: A



- **54.** Lucas test is used to distinguish between
 - A. Ethanol and glycol
 - B. Phenol and p-cresol
 - C. Butane-1-ol and 2-Methyl-propane-2-ol

D. Propane-1-ol and ethanol

Answer: C



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55. Which of the following is the most acidic?

- A. Cyclohexanol
- B. m-chlorophenol
- C. Benzyl alcohal
- D. Phenol

Answer: B



56. Diethyl ether can be decomposed with

A. Dilute aqueous $KMnO_4$

B. Water

C. Dilute equeous NaOH

D. Hl solution

Answer: D



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57. Aldehydes can be oxidised by

A. Tollen's reagent

B. Fehling solution

C. Benedict solution

D. All of these

Answer: D



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58. When acetamide reacts with Br_2 and caustic soda, then we get

A. Acetic acid

B. Bromoacetic acid

C. Ethylamine

D. Methylamine

Answer: D

59. Aromatic aldehydes in the presence of cyanide ions are converted into a acyloins. This reaction is known as

- A. Perkin's reaction
- B. Cannizzaro reaction
- C. Benzoin condensation
- D. Claisen condensation

Answer: C



- A. Ethyl ethanoate
- B. Formic acid
- C. Ethanoic anhydride
- D. CO_2 and water



- **61.** Fog is colloidal solution of
 - A. Liquid dispersed in gas
 - B. Gas dispersed in gas
 - C. Solid dispersed in gas
 - D. Solid dispersed in liquid

Answer: A



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62. The catalyst

- A. Increase the activation energy
- B. Helps in forming more products
- C. Bring about equilibrium
- D. None of these

Answer: D



63. Milk can be preserved by adding a few drops of	

- A. Acetaldehyde
- B. Formaldehyde
- C. Acetic acid
- D. Formic acid

Answer: B



- **64.** In a nuclear reactor, the function of moderator is
 - A. To stop the nuclear reaction
 - B. To produce excess of neutrons

- C. To increase the speed of neutrons
- D. To decrease the speed to neutrons

Answer: D



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- 65. Which of the following is not an endothermic reaction?
 - A. Decomposition of water
 - B. Conservsion of graphite into diamond
 - C. Dehydrogenation of ethane to ethylene
 - D. Combustion of methane

Answer: D



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66. A chemical reaction will not be feasible, if

- A. \triangle H is positive and \triangle S is also positive
- B. \triangle H is positive and \triangle S is negative
- C. \triangle *H* is negative and \triangle *S* is also negative
- D. $\triangle H$ is negative and $\triangle S$ is also positive

Answer: B



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67. The enthalpy of neutralisation of NaOH with H_2SO_4 is -57.3 kJ/mol. Which of the following is the best explanation of this difference?

A. Ethyanoic acid is only paratially ionished, the neutralisation is, therefore, incomplete.

- B. Ethanoic acid is a weak acid and, therefore, requires less
- C. Ethanoic acid is monobasic while H_2SO_4 is diabasic

NaOH for neutralisation

D. Some heat is actually utilised to ionize ethanoic acid completely

Answer: D



68. Entropy of a system may depend upon

A. Volume only

- B. Temperature only
- C. Pressure only
- D. All of these

Answer: D



- **69.** A first order reaction has half-life of 69.3s. At $0.1 \mod lit^{-1}$ reaction concentration, the reaction rate will be
 - A. $6.93 imes 10^{-1}$ mol $lit^{-1}s^{-1}$
 - B. $1.0 imes 10^{-1} \;\; ext{mol} \;\; lit^{-1}s^{-1}$
 - C. $1.0 imes 10^{-3} \quad \mathrm{mol} \quad lit^{-1}s^{-1}$

D. $1.0 imes 10^{-4} \;\; ext{mol} \;\; lit^{-1}s^{-1}$

Answer: C



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70. Which one of the following noble gases is the least polarizable?

A. Helium

B. Neon

C. Krypton

D. Radon

Answer: A



71	Tho	molecular	goomotr	, of	$V \circ F$	molocul	_	:-
/ I.	IIIE	moleculai	geometry	y Oi	Aer_6	molecui	C	15

- A. Pyramidal
- B. Tetrahedral
- C. Distorted octahedral
- D. Trigonal bipyramidal



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72. In the aluminothermic process

A. Al_2O_3 is reduced by Cr

- B. Cr_2O_3 is reduced by Al
- $C. Al_2O_3$ is reduced by C
- D. None of these corrcet

Answer: B



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73. Which of the following minerals does not contain aluminium?

- A. Cryolite
- B. Mira
- C. Feldspar
- D. Fluorspar

Answer: D



74. Which of the following statements is not correct regarding boron triffiluoride?

- A. It can form an adduct
- B. In acts as a Lewis base
- C. It forms ionic bond
- D. It also forms dative bond with compound like $NH_{
 m 3}$

Answer: B



75. Positive carbylamine test is not shown by?					
A. N,N-dimethylaniline					
B. 2,4-dimethylaniline					
C. N-methyl-o-methylaniline					
D. p-methyl benzylamine					
Answer: B					
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76. Which of the following statements is not correct?

C. Methylamine is more basic than ammonia

B. Ethylamine has higher boiling point than propane

A. Amines forms hydrogen bond

D. Dimethylamine is less basic than methylamine

Answer: D



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77. Identify 'Z' in the following reaction sequence?

A. $CH_3CH_2CONH_2$

B. CH_3CN

 $\mathsf{C}.\,CH_3COOH$

D. $(CH_3CO)_2O$

Answer: C



78. The pH of a solution, obtained by mixing 50 ml of 0.4 HCl and 50 ml of 0.2 N NaOH, is

- A. 1.0
- B. 2.0
- $\mathsf{C.}\ 3.0$
- D. 7.8

Answer: A



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79. When equal volume sof the following solutions are mixed, precipitation of $AgClig(Ksp=1.8 imes10^{-10}ig)$ will occur only

with

A.
$$10^{-4} M(Ag^+)$$
 and $10^{-4} M(Cl^-)$

B.
$$10^{-5}M \left(Ag^+\right)$$
 and $10^{-5}M \left(Cl^-\right)$

C.
$$10^{-6}M(Ag^+)$$
 and $10^{-6}M(Cl^-)$

D.
$$10^{-10} M (Ag^+)$$
 and $10^{-10} M (Cl^-)$

Answer: A



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80. The equilibrium constant in a reversible reaction at a given temperature

A. Depends on initial concentration of reactions

- B. Depends on the concentration of products at
- C. Does not depend on initial concentrations
- D. It is not a characteristic of a reaction



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equilibrium

- **81.** For which of the following reactions, Kp=Kc?
 - A. $2NOCl_{\,(\,g\,)} \,\leftrightarrow\, 2NO_{\,(\,g\,)} \,+\, Cl_{2\,(\,g\,)}$
 - B. $N_{2\,(\,g\,)}\,+3H_{2\,(\,g\,)}\,\leftrightarrow 2NH_{3\,(\,g\,)}$
 - $\mathsf{C.}\,H_{2\,(\,g\,)}\,+Cl_{2\,(\,g\,)}\,\leftrightarrow 2HCl_{\,(\,g\,)}$
 - D. $N_2O_{4\,(\,g\,)} \,\leftrightarrow\, 2NO_2$



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82. Which of the following conditions is not satisfied by an ideal solution?

A.
$$\triangle$$
 H $_{
m mixing}$ $=0$

B.
$$\triangle \ V_{
m mixing} \ = 0$$

C. Raoult's law is obeyed

D. Formation of an azeotropic mixture

Answer: D



83. Which of the following equeous solutions exhibits lowest boiling point?

- A. 0.1MNaCl
- ${\tt B.}\ 0.1 MCaCl_2$
- C. $0.1MCH_3COONa$
- ${\rm D.}\,0.1M~{\rm Glucose}$

Answer: D



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84. Butter is a colloid formed when

- A. Water is dispersed in fat
- B. Fat is dispersed in water

C. Fat globules are dispresed in water

D. Water is dispersed in oil

Answer: A



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85. Which of the following nuclear reactions is incorrect?

A.
$$\frac{59}{27}Co\left(n, \frac{2}{1}H\right)\frac{56}{23}Mn$$

B.
$$_{5}B^{10}(a,{_{0}}n^{1})\frac{13}{7}N$$

$$\operatorname{C.} \frac{9}{4} Be \big(a, {_0}n^1\big) \frac{12}{6} C$$

$$\operatorname{D.} \frac{63}{29} Cu \left(p, \frac{2}{1} H \right) \frac{62}{29} Cu$$

Answer: A



86. In the radioactive decay of an element, the emitted electrons come from-

A. Inner orbital of the atom

B. Is orbital of the atom

C. Nucleus of the atom

D. The outermost shell of the atom

Answer: C



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87. The blocks of Mg metal are often strapped to the steel hulls of ocean going ships in order to

- A. Provide cathodic protection
- B. Provent oxidation of steel
- C. Both A and B are correct
- D. None of these is correct



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88. In benzene the sp^3 orbitals of each carbon atoms constitute

- A. Two σ and one π bond
- B. One σ and π two bonds
- C. Three σ bonds only

D. Three σ and π one bond

Answer: C



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89. The IUPAC name of

$$HC \equiv CCH_2CH_2CH = CH_2$$
 is

- A. 1,5-hexenyne
- B. 1,5-hexynene
- C. 1-hexen-5-yne
- D. 1-hexyn-5-ene

Answer: D



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90. In separate 0.1 M aqueous solution of each of the following salts, which one will record the highest pH value?

- A. Sodium carbonate
- B. Ammonium chloride
- C. Sodium nitrate
- D. Potassium acetate

Answer: A



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91. Real gases show an ideal-like behaviour at

- A. High pressure and low temperatures
- B. Low pressure and high temperatures
- C. Standard pressure and standard temperature
- D. High pressure and high temperatures



- **92.** The value of Planck's constant is ______.
 - A. $6.03 imes 10^{23} \;\; ext{mol} \;\; s$
 - B. $6.03 imes10^{-34}Js^{-1}$
 - C. $6.6262 imes 10^{-34} Js$
 - D. $6.63 imes 10^{-34} Js$



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93. The maximum number of molecules will be present in

A. $16g ext{ of } NO_2 ext{ gas}$

B. 16g of O_2 gas

C. 7g of N_2 gas

D. 2g of H_2 gas

Answer: D



- 94. Geometrical isomers differ in
 - A. Chain stuctures
 - B. Position of functional group in the chain
 - C. Arrangement in space of atoms in respectively molecules
 - D. Functional groups



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95. The reduction of RCOCl with H_2 . $Pd-BaSO_4$ would give

A. R - CO - R

- B.RCOOH
- $\mathsf{C}.\,RCHO$
- D. RCH_2OH



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96. In electroplating copper with silver the bath solution used is of $K\big[Ag(CN)_2\big]$ instead of $AgNO_3$ because on account of complex formation.

- A. A thinner coating of silver is obtained
- B. Availability of $Ag\,+\,$ ions in solution is so reduced that they are not replaced by copper ions

- C. Ag + ions are completely removed from the solution
- D. Expense on electricity are reduced

Answer: B



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97. The atomic numbers of chromium and iron are 24 and 26 respectively. Which one of the following complexes exhibits paramagnetic character due to electronic spin?

- A. $\left[Fe(CO)_5\right]$
- B. $\left[Cr(NH_3)_6
 ight]^{3+}$
- C. $\left[Fe(CN)_6\right]^{4-}$
- D. $\left[Cr(CO)_6\right]$

Answer: B



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98. Enzymes are basically

- A. Edible proteins
- B. Carbohydrates
- C. Carbodydrates containing nitrogen
- D. Specially stuctured proteins

Answer: D



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