# ©゙" doubtnut 

## CHEMISTRY

# BOOKS - MCGROW HILL EDUCATION CHEMISTRY (HINGLISH) 

## MISCELLANEOUS QUESTIONS

1. The temperature at absolute zero is
A. $273.15^{\circ} C$
B. $0^{\circ} \mathrm{C}$

$$
\begin{aligned}
& \text { C. }-373.15^{\circ} \mathrm{C} \\
& \text { D. }-273.15^{\circ} \mathrm{C}
\end{aligned}
$$

## Answer: D

## - View Text Solution

2. Molecule is th smallest particle of
A. compound

B. substance

C. mixture
D. element

## Answer: A

## - View Text Solution

3. Atom is th smallest particle of
A. compound
B. element
C. mixture
D. substance

Answer: B
4. Avogadro's numbr is the numbr of particles present in ..................... Of a susbtance.
A. 1 molecule
B. 1 atom
C. 1 kg
D. 1 mole

## Answer: D

## - View Text Solution

5. SI unit of temperature is
A. Kelvin
B. degree Celsius
C. degree Fahrenheit
D. Dalton

## Answer: A

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6. Homogenous mixture is formed by mixing
A. phenol and water
B. iron filing and sand

## C. silver chloride and water

D. ethanol and water

## Answer: D

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7. Atomicity of ammonium pohosphate molecule is
A. 5
B. 10
C. 15
D. 20

## Answer: D

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8. The number of molecules in $22.4 \mathrm{~cm}^{3}$ of nitorgen gas at STP is
A. $6.02 \times 10^{20}$
B. $6.02 \times 10^{23}$
C. $22.4 \times 10^{20}$
D. $22.4 \times 10^{23}$

Answer: A
9. Number of moles of water in 1L of $\mathrm{H}_{2} \mathrm{O}$ with density
$1 \mathrm{~g} / \mathrm{cm}^{3}$ are
A. 55.56
B. 45.56
C. 56.55
D. 56.45

Answer: A

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10. At STP 2 g of helium gas (molar mass $=4$ ) occupies a volume of
A. 22.4 L
B. 11.2 L
C. 5.6L
D. 2 L

Answer: B
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11. A measured temperature on Fahrenheit scale is
$200^{\circ} \mathrm{F}$. What will this reading be one celsium scale?
A. $40^{\circ} \mathrm{C}$
B. $94^{\circ} \mathrm{C}$
C. $93.3^{\circ} \mathrm{C}$
D. $30^{\circ} \mathrm{C}$

## Answer: C

12. What is the mass percent of carbon in carbon dioxide?
A. $0.034 \%$
B. $27.27 \%$
C. $3.4 \%$
D. 28.7 \%

Answer: B

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13. The empirical formula and molecular mass of a compound are $\mathrm{CH}_{2} \mathrm{O}$ and 180 g respectively. What will be the molecular formula of the compound?
A. $\mathrm{C}_{9} \mathrm{H}_{18} \mathrm{O}_{9}$
B. $\mathrm{CH}_{2} \mathrm{O}$
C. $\mathrm{C}_{6} \mathrm{H}_{12} \mathrm{O}_{6}$
D. $\mathrm{C}_{2} \mathrm{H}_{4} \mathrm{O}_{2}$

## Answer: C

14. Which of the following statements about a compound is correct?
A. A molecule of a compound has atoms of different elements
B. A compound cannot be separated into
constituent element by physical methods of
separation
C. A compound retains the physical properties of its constituent elements
D. The ratio of atoms of different elements in a

## Answer: C

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15. Which of the following reactions is not correct according to the law of conservation of mass?
A. $2 \mathrm{Mg}+\mathrm{O}_{2} \rightarrow 2 \mathrm{MgO}$
B. $\mathrm{CH}_{3} \mathrm{H}_{8}+\mathrm{O}_{2} \rightarrow \mathrm{CO}_{2}+\mathrm{H}_{2} \mathrm{O}$
C. $P_{4}+5 O_{2} \rightarrow P_{4} O_{10}$
D. $\mathrm{CH}_{4}+2 \mathrm{O}_{2} \rightarrow \mathrm{CO}_{2}+2 \mathrm{H}_{2} \mathrm{O}$

Answer: B
16. The physical state of a substance with lot of empty intermolecular space is
A. solid
B. liquid
C. gas
D. plasma

Answer: C

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17. The liquid with maximum viscosity is
A. water
B. acetone
C. glycerol
D. glass

## Answer: D

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18. Which of the following property of water can be used to explain the spherical shape of rain droplets?
A. viscosity
B. surface tension
C. pressure
D. vaporisation

## Answer: B

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19. In Rtherfor'ds experiment most of the alpha particles were
A. passed undeflected
B. deflected

## C. thrown back

D. absorbed

## Answer: A

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20. The maximum number of electrons in a shell is given by expression
A. $n^{2}$
B. $2 n^{2}$
C. $(n+1)^{2}$
D. $(2 n)^{2}$

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21. An electron has principal quantum number 2 . The number of sub shell and orbitals would be respectively
A. 2 and 3
B. 2 and 5
C. 2 and 7
D. 2 and 4

## Answer: D

22. Which of the following statements about the electron is incorrect?
A. it is a negatively charged particle
B. the mass of electron is equal to the mass of neutron
C. it is a basic constituent of all atoms
D. it is a constituent of cathode rays

Answer: B
23. Which of the following properties of atom could be explained correctly by Thomson model of atom?
A. overall neutrality of atom
B. Spectrum of hydrogen atom
C. Position of electrons, protons and neutrons
D. Stability of atom

## Answer: A

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24. Two atoms are said to be isobars if
A. they have same atomic number but different mass number
B. they have same number of electrons but different number of neutrons
C. they have same number of neutrons but different number of electrons
D. sum of the number of protons and neutrons is
same but the number of protons is different

## Answer: D

25. Which of the following is not a part of isotopes?
A. ${ }_{6}^{12} X,{ }_{6}^{13} Y$
B. ${ }_{17}^{35} X,{ }_{17}^{37} Y$
C. ${ }_{6}^{14} X,{ }_{7}^{14} Y$
D. ${ }_{4}^{8} X,{ }_{4}^{9} Y$

## Answer: C

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26. Which of the following statement is not correct about the characterstics of cathode rays
A. They start from the cathode and move towards
the anode
B. They travel in straight lineinthe absence of an external electrical or magnetic field
C. characteristics of cathode rays do not depend
upon the matieral of electrodes in cathode ray
tube
D. Characteristics of cathode rays depend upon the nature of gas present in the cathode ray tube

## Answer: D

27. Which of the following conclusions could not be derived from Rutherford's is $\alpha$ - ray scattering experiment?
A. Most of the space in the atom is empty
B. The radius of the atom is about $10^{-10} m$ while that of nucleus is $10^{15} \mathrm{~m}$
C. Electrons move in a circular path of fixed energy called orbits
D. Electrons and the nucleus are held together by
electrostatic forces of attraction
28. Deuterium necleus contains
A. $1 p+1 n$
B. $2 p+0 n$
C. $1 p+1 e^{-1}$
D. $2 p+2 n$

Answer: A

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29. Which one of the following pairs constitutes isotones?
A. ${ }_{6}^{13} C$ and ${ }_{6}^{14} C$
B. ${ }_{6}^{13} \mathrm{C}$ and ${ }_{7}^{14} \mathrm{~N}$
C. ${ }_{7}^{14} N$ and ${ }_{9}^{19} F$
D. ${ }_{7}^{14} N$ and ${ }_{7}^{15} N$

Answer: B

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30. A metallic ion $\mathrm{m}^{2+}$ has an electronic configuration of $2,8,8,6$ and the ionic weight is 56 amu . The number of neutrons in its nucleus is
A. 30
B. 32
C. 34
D. 42

Answer: A

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31. The first attempt to classify elements was made by
A. Mendeleev
B. Newland
C. Lothar Meyer
D. Dobereiner

## Answer: D

## D Watch Video Solution

32. In the modern Periodic Table, the elements are arranged in
A. increasing mass
B. increasing atomic volume
C. increasing atomic number
D. incresing atomic weight

## Answer: C

## - View Text Solution

33. Which of the following sets belong to the sam period?
A. Li,Na,K
B. Li,Mg,Ca

## C. $\mathrm{Ni}, \mathrm{Cu}, \mathrm{Zn}$

D. $\mathrm{F}, \mathrm{Cl}, \mathrm{Br}$

## Answer: C

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34. Which of the following is the largest in size?
A. $\mathrm{Cl}^{-}$
B. $S^{2-}$
C. $\mathrm{Na}^{+}$
D. $F^{-}$

Answer: B

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35. If the long form of periodic table the total number of periods is
A. 5
B. 7
C. 8
D. 9

Answer: B

# 36. In the long form of periodic table the total number 

 of groups areA. 15
B. 18
C. 12
D. 8

Answer: B

- View Text Solution

37. Halgens are placed in which group of elements in modern periodic table?
A. 17
B. 2
C. 4
D. 6

Answer: A

- View Text Solution

38. Which pair of elements has similar properties?
A. 13,31
B. 11,20
C. 12,10
D. 21,33

Answer: A

- View Text Solution

39. The most electronegative element is
A. compound
B. B
C. 0
D. N

## Answer: C

## - View Text Solution

40. Which of the following property does not increase across the period?
A. electronegativity
B. ionization energy
C. metallic character
D. acidic nature of oxides,

## Answer: C

## - View Text Solution

41. Which of the following elements will gain one electron more readily in comparison to other elements of their group?
A. Mg
B. Na
C. O
D. Cl
42. Amongst the followng the most metallic elements is
A. F
B. Ca
C. Li
D. Na

Answer: B

- View Text Solution

43. Which element is the most electronegative?
A. $A(2,2)$
B. $B(2,3)$
C. C $(2,4)$
D. $D(2,5)$

## Answer: D

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44. A substance that gains electron(s) is
A. an oxidising agent

# B. a reducing agent 

C. a substance that oxidies
D. reductant

## Answer: A

## D View Text Solution

45. In the reaction $A+B^{+} \rightarrow A^{+}+B, \mathrm{~A}$ is
A. oxidised
B. reduced
C. an oxidising agent

## D. being reduced

## Answer: A

## - View Text Solution

46. Which of the following is not an example of redox reaction?
A. $\mathrm{CuO}+\mathrm{H}_{2} \rightarrow \mathrm{Cu}+\mathrm{H}_{2} \mathrm{O}$
B. $\mathrm{Fe}_{2} \mathrm{O}_{3}+3 \mathrm{CO} \rightarrow 2 \mathrm{Fe}+3 \mathrm{CO}_{2}$
C. $2 K+F_{2} \rightarrow 2 K F$
D. $\mathrm{BaCl}_{2}+\mathrm{H}_{2} \mathrm{SO}_{4} \rightarrow \mathrm{BaSo}_{4}+2 \mathrm{HCl}$

## Answer: D

## D Watch Video Solution

47. Which of the following statement is not true about
the following decomposition reaction.
$2 \mathrm{KClO}_{3} \rightarrow 2 \mathrm{KCl}+3 \mathrm{O}_{2}$
A. potassium is neither undergoing oxidation nor

## reduction

B. chlorine is undergoing reaction
C. oxygen is oxidised
D. None of the species undergoing oxidation or reduction

## Answer: D

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48. Identify the correct statement(s) in relation to the following reaction.
$\mathrm{Zn}+2 \mathrm{HCl} \rightarrow \mathrm{ZnCl}_{2}+\mathrm{H}_{2}$
A. Zinc is acting as an oxidant
B. Chlorine is acting as a reductant
C. Hydrogen is acting as a reducing agent

## D. zinc is acting as a reductant

## Answer: D

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49. Which of the following is a decomposition reaction as well redoc reaction?

> A. $2 \mathrm{KBr}+\mathrm{Cl}_{2} \rightarrow 2 \mathrm{KCl}+\mathrm{Br}_{2}$
> B. $2 \mathrm{Na}+\mathrm{H}_{2} \mathrm{O} \rightarrow 2 \mathrm{NaOH}+\mathrm{H}_{2}$
> C. $2 \mathrm{MgO} \rightarrow 2 \mathrm{Mg}+\mathrm{O}_{2}$
D. $\mathrm{ZnCO}_{3} \rightarrow \mathrm{ZnO}+\mathrm{CO}_{2}$

## Answer: C

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50. 

$\mathrm{BaCl}_{2(a q)}+\mathrm{H}_{2} \mathrm{SO}_{4(a q)} \rightarrow \mathrm{BaSO}_{4(s)}+2 \mathrm{HCl}_{(a q)}$ is
A. a non redox reaction
B. double displacement reaction
C. a precipatation reaction
D. all these are correct
51. The formula of sodium phosphate is
A. $\mathrm{NaPO}_{4}$
B. $N a_{2} P O_{4}$
C. $N a_{3} P O_{4}$
D. $\mathrm{NaPO} \mathrm{O}_{2}$

Answer: C
(D) View Text Solution
52.
$\mathrm{MnO} 2+4 \mathrm{HCl} \rightarrow \mathrm{MnCl}_{2}+2 \mathrm{H}_{2} \mathrm{O}+\mathrm{Cl}_{2}$
A. $\mathrm{MnO}_{2}$ is being reduced to $\mathrm{MnCl}_{2}$
B. HCl is being reduced to $C l_{2}$
C. $\mathrm{MnO}_{2}$ is acting as a reducing agent
D. HCl is an oxidant

Answer: A
(D) Watch Video Solution
53. $2 \mathrm{FeCl}_{3}+\mathrm{SnCl}_{2} \rightarrow 2 \mathrm{FeCl}_{2}+\mathrm{SnCl}_{4}$ is an example of
A. non redox reaction
B. double displacement reaction
C. redox reaction
D. None of these

Answer: C
(D) Watch Video Solution
54. In the balanced reaction $a \mathrm{Fe}_{2} \mathrm{O}_{3}+b \mathrm{H}_{2} \rightarrow c \mathrm{Fe}+d \mathrm{H}_{2} \mathrm{O}$
$\mathrm{a}, \mathrm{b}, \mathrm{c}$ and d, respectivel, are
A. 1,1,2,3
B. 1,1,1,1
C. 1,3,2,3
D. 1,2,2,3

Answer: C
55. The neutralisation of HCl by NaOH to form salt and water is an example of
A. decomposition reaction
B. combination reaction
C. displacement reaction
D. double decomposition reaction

## Answer: D

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56. $\mathrm{Na}_{2} \mathrm{CO}_{3}$ is a salt of
A. strong acid and strong base
B. strong acid and weak base
C. weak acid and strong base
D. weak acid and weak base

## Answer: C

## D Watch Video Solution

57. The concentration of $\mathrm{OH}^{-}$in a solution is
$1.0 \times 10^{-10} M$. The solution is
A. acidic
B. basic

## C. neutral

D. None of these

## Answer: A

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58. The acid present in the tomatoes is
A. tartaric acid
B. oxalic acid
C. carbonic acid
D. acetic acid

Answer: B

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59. The ant bilte can be neutralised by
A. NaOH
B. $\mathrm{NaHCO}_{3}$
C. KOH
D. $\mathrm{H}_{2} \mathrm{SO}_{4}$

Answer: B
60. When a little sulphur in a spoon is heated, it burns
with a blue flame which slowly disappears after some
time and we can feel a pungent odour. This pungent odour is due to
A. carbon dioxide
B. sulphur dioxide
C. sulphur vapours
D. sulphuric acid.

Answer: B
61. Ant sting causes irratation due to the presence of
A. a base in the sting
B. formic acid in the sting
C. sulphuric acid in the sting
D. both b and c

## Answer: B

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62. Each of the following oxide dissolves in water to give an aqueous solution which turns red litmus blue except
A. MgO
B. CaO
C. $\mathrm{CO}_{2}$
D. $\mathrm{Na}_{2} \mathrm{O}$

Answer: C

## D Watch Video Solution

63. $\mathrm{CuSO} \mathrm{O}_{4} \cdot 5 \mathrm{H}_{2} \mathrm{O}$ becomes anhydrous $\mathrm{CuSO}_{4}$ on heating. This property of losing water molecules of crystallisation is known as
A. deliquescence

B. dehydration

C. efflorescence
D. hydrolysis

## Answer: C

## D Watch Video Solution

64. The acidity of soil, which is due to excessive use of
fertiliser ammonium sulphate can be neutralised by adding
A. lime
B. caustic soda

## C. washing soda

D. limestone

## Answer: A

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65. Which of the following is incorrectly matched?
A. milt of magnesia $\rightarrow \mathrm{Mg}(\mathrm{OH})_{2}$
B. quick lime $\rightarrow \mathrm{CaO}$
C. vinegar $\rightarrow \mathrm{CH}_{3} \mathrm{COOH}$
D. washing soda $\rightarrow \mathrm{NaHCO}_{3}$

## Answer: D

## D Watch Video Solution

66. Which of the following base is used to neutralise acidity in the stomach?
A. KOH
B. NaOH
C. $\mathrm{Mg}(\mathrm{OH})_{2}$
D. all these

Answer: C
67. Which of the following metal does not evolve hydrogen gas on reaction with dilute HCl ?
A. magnesium
B. iron
C. copper
D. aluminium

Answer: C

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68. Which of the following has highest concentration of hydrogen ion?
A. Solutioni with $\mathrm{pH}=4$
B. solution with $\mathrm{pH}=7$
C. Solution with $\mathrm{pH}=5$
D. Solution with $\mathrm{pH}=2$

## Answer: D

## - Watch Video Solution

69. Which of the following molecule involves electrovalent bond?
A. $\mathrm{H}_{2}$
B. $\mathrm{CH}_{4}$
C. $\mathrm{CaCl}_{2}$
D. HCl

## Answer: C

70. Among the following, the molecule with linear geometry is
A. $C_{2} H_{4}$
B. $\mathrm{CO}_{2}$
C. $\mathrm{NH}_{3}$
D. $\mathrm{H}_{2} \mathrm{O}$

Answer: B

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71. Total number of sigma bonds involved in ethylene molecule $\mathrm{C}_{2} \mathrm{H}_{4}$ are
A. 3
B. 5
C. 2
D. 1

Answer: B

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72. Octer rule is not violated in case of
A. methane
B. boron trifluoride
C. sulphur hexafluoride
D. aluminnium chloride

Answer: A

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73. In forming compound $A B$, an electron is transferred from A to B then
A. $A$ is divalent
$B . B$ is oxidised

## C. A and B are covalently bonded

D. the compound $A B$ is electrovalent

## Answer: D

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74. A true covalent bond is formed by
A. transfer of electron from one atom to the other
B. mutual sharing of electrons
C. one sided sharing of electrons
D. None of these
75. Which of the following has a bond angle of $109^{\circ}$ ?
A. $\mathrm{CO}_{2}$
B. $\mathrm{H}_{2} \mathrm{O}$
C. $\mathrm{CH}_{4}$
D. $\mathrm{SO}_{2}$

Answer: C
76. The angle between two covalet bonds is minimum in
A. $\mathrm{CH}_{4}$
B. $\mathrm{C}_{2} \mathrm{H}_{2}$
C. $\mathrm{NH}_{3}$
D. $\mathrm{H}_{2} \mathrm{O}$

Answer: D
(D) Watch Video Solution
77. Which of the following molecules has hargest bond angle ?
A. $\mathrm{H}_{2} \mathrm{O}$
B. $\mathrm{NH}_{3}$
C. $\mathrm{CO}_{2}$
D. $\mathrm{CH}_{4}$

Answer: C
78. Which of the following species has tetrahedral geometry?
A. $B F_{4}^{-}$
B. $\mathrm{CH}_{4}$
C. $\mathrm{NH}_{4}^{+}$
D. all these

Answer: D

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79. Which of the following compound contains ionic bond, covalent bond and datic bond?
A. NaCl
B. $\mathrm{CaCl}_{2}$
C. HBr
D. $\mathrm{NH}_{4} \mathrm{Cl}$

Answer: D
(D) Watch Video Solution
80. Which of the following metal reacts least vigorously with water?
A. Li
B. Na
C. K
D. Cs

Answer: A

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81. Dead burnt plaster is
A. $\mathrm{CaSO}_{4}$
B. $\mathrm{CaSO}_{4} \frac{.1}{2} \mathrm{H}_{2} \mathrm{O}$
C. $\mathrm{CaSO}_{4} \cdot \mathrm{H}_{2} \mathrm{O}$
D. $\mathrm{CaSO}_{4} \cdot 2 \mathrm{H}_{2} \mathrm{O}$

Answer: A

## D Watch Video Solution

82. Suspension of slaked lime in water in known as
A. lime water
B. quick lime

## C. milk of lime

D. aqueous solution of slaked lime

## Answer: A

## - View Text Solution

83. By adding gypsum to cement
A. setting time of cement becomes less
B. setting time of cement increases
C. colour of cement becomes light
D. shining surface is obtained

## - View Text Solution

84. The formula of soda ash is
A. $\mathrm{Na}_{2} \mathrm{CO}_{3} \cdot 10 \mathrm{H}_{2} \mathrm{O}$
B. $\mathrm{Na}_{2} \mathrm{CO}_{3} \cdot 2 \mathrm{H}_{2} \mathrm{O}$
C. $\mathrm{Na}_{2} \mathrm{CO}_{3} . \mathrm{H}_{2} \mathrm{O}$
D. $\mathrm{Na}_{2} \mathrm{CO}_{3}$

Answer: D
85. Which of the following is an ore of zinc?
A. Calamine
B. Galena
C. Siderite all these
D. all these

## Answer: A

## (D) Watch Video Solution

86. Which of the following ore can be subject to roasting?

# A. Galena 

B. Cinnabar

C. Copper pyrite
D. all these

## Answer: D

## D Watch Video Solution

87. Which of the following is not the criterion of purity of a substance?
A. solubility
B. melting point

## C. boiling point

D. density

## Answer: A

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88. Organic compounds are non conductors of electricity because they
A. are insoluble in water
B. do not form ions
C. have low melting point
D. do not form free radicals

Answer: B

## - View Text Solution

89. Vinegar contains functional group
A. -OH
B. $-\stackrel{O}{\stackrel{\|}{C}-H}$
C. $-\stackrel{O}{+11}-$
D. $-\stackrel{O}{\|}-\mathrm{OH}$

Answer: D
90. The IUPAC name of $\mathrm{CH}_{3} \equiv \mathrm{C}-\mathrm{CH}_{2}-\mathrm{CH}_{2} \mathrm{OH}$ is
A. 4-methyl but-3-yne-1-ol
B. pent-3-yn-1-ol
C. 1-hydroxypent -3-yne
D. 5-hydroxy pent -2-yne

Answer: B
(D) Watch Video Solution

## 91. The principal functional group present in

A. an aldehyde

B. ketone
C. alcohol
D. oxy

Answer: B

- View Text Solution


## 92. The IUPAC name of

 isA. but-3-enoic-acid
B. but-1-enoic-acid
C. pent-4-enoic acid
D. prop-2-enoic acid

## Answer: A

93. Each of the following hydrocarbon belongs to an alkane series except
A. $C_{3} H_{8}$
B. $C_{4} H_{6}$
C. $\mathrm{CH}_{4}$
D. $C_{5} H_{12}$

Answer: B

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94. Which of the following hydrocarbon contains maximum number of covalent bonds?
A. $C_{3} H_{8}$
B. $C_{4} H_{6}$
C. $C_{4} H_{10}$
D. $\mathrm{C}_{4} \mathrm{H}_{8}$

## Answer: C

## - Watch Video Solution

95. Aromatic compounds burn with
A. blue flame
B. green flame
C. red flame
D. sooty flame

## Answer: D

## - Watch Video Solution

96. The number of structural isomers for $C_{6} H_{14}$ is :
A. 3
B. 4
C. 5
D. 6

## Answer: C

## - Watch Video Solution

97. Pick out the alkane which differs from the other members of the group
A. 2,2-dimethyl propane
B. pentane
C. 3-methyl butane
D. 2,2-dimethyl butane

## Answer: D

## D Watch Video Solution

98. Heating sodium ethanoate with sosa lime gives
A. methane
B. ethane
C. propane
D. ethene

Answer: A
99. Which of the following hydrocarbon can decolourise bromine water?
A. $C_{4} H_{6}$
B. $C_{4} H_{8}$
C. $C_{3} H_{6}$
D. all these

## Answer: D

## - Watch Video Solution

100. Neopentane and isopentane are
A. allotropes
B. homologous
C. isomers
D. isotopes

Answer: C

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101. A solution is a homogeneous mixture of two or more substances. Which of the following is a solution?
A. milk
B. smoke
C. Brass
D. face cream

## Answer: C

## D Watch Video Solution

102. 1.80 g of glucose (molar mas $=180$ ) is dissolved in
36.0 g of water in a beaker. The total number of oxygen atoms in the solution is
A. $12.405 \times 10^{23}$
B. $12.405 \times 10^{22}$
C. $6.022 \times 10^{23}$
D. $6.022 \times 10^{22}$

## Answer: A

## D Watch Video Solution

103. The turmeric solution will turn red by an aqueous solution of
A. potassium acetate
B. copper sulphate
C. sodium sulphate
D. ferric chloride

## D Watch Video Solution

104. Which of the following reaction is feasible?
A. $\mathrm{Ba}_{(s)}+\mathrm{K}_{2} \mathrm{SO}_{4(a q)} \rightarrow \mathrm{BaSO}_{4(a q)}+2 K_{(s)}$
B.

$$
Z n_{(s)}+2 \mathrm{AgNO}_{3(a q)} \rightarrow \mathrm{Zn}\left(\mathrm{NO}_{3}\right)_{(a q)}+2 \mathrm{Ag}_{(s)}
$$

C.

$$
\mathrm{Mg}(\mathrm{~s})+\mathrm{Na}_{2} \mathrm{SO}_{4(a q)} \rightarrow \mathrm{MgSO}_{4(a q)}+2 \mathrm{Na}_{(s)}
$$

D. $\mathrm{Cu}(\mathrm{s})+\mathrm{MgSO}_{4(a q)} \rightarrow \mathrm{CuSO}_{4(a q)}+M g_{(s)}$

## Answer: B

## D Watch Video Solution

105. When ethanol is converted to ethanoic acid by using acidified potassium dichromate, the ethanol is
A. reduced and the colour changes from orange to green
B. reduced and the colour changes from yellow to
green
C. oxidised and the colour changes from orange to

# D. oxidised and the colour changes from orange to 

green

## Answer: D

## - Watch Video Solution

106. Which of the following product(s) obtained when iron reacts with steam?
A. $\mathrm{FeO}+\mathrm{H}_{2}$
B. $\mathrm{Fe}_{2} \mathrm{O}_{3}+\mathrm{H}_{2}$
C. $\mathrm{Fe}_{2} \mathrm{O}_{3}+\mathrm{O}_{2}$
D. $\mathrm{Fe}_{3} \mathrm{O}_{4}+\mathrm{H}_{2}$

## D Watch Video Solution

107. If copper is kept in open air, it slowly loses its
shining brown surface and covered with a green colour coating. It is due to the formation of
A. $\mathrm{CuCO} \mathrm{C}_{3}$
B. $\mathrm{CuO}+\mathrm{CuCO}_{3}$
C. $\mathrm{Cu}(\mathrm{OH})_{2} . \mathrm{CuCO} 3$
D. CuO

Answer: C
108. Polymer used in non stick utensils is
A. polyvinyl chloride
B. polyethene
C. polystyrene
D. polytetrafluoroethene

Answer: D

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## 109. Vulcanised rubber contains

A. about 3-5\% sulphur
B. about 30\% sulphur
C. about 5\% carbon black
D. about 15-20\% carbon black

Answer: A

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