

# **CHEMISTRY**

# BOOKS - MCGROW HILL EDUCATION CHEMISTRY (HINGLISH)

# **MISCELLANEOUS QUESTIONS**

Mcqs

1. The temperature at absolute zero is

A.  $273.15\,^{\circ}\,C$ 

 $B.0^{\circ}C$ 

C.  $-373.15^{\circ}C$ 

 $\mathsf{D.}-273.15\,^{\circ}\,C$ 

#### **Answer: D**



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# 2. Molecule is th smallest particle of

A. compound

B. substance

C. mixture

D. element

#### **Answer: A**



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

#### **Answer: B**



<b>4.</b> Avogadro's numbr is the numbr of particles present
in Of a susbtance.
A. 1 molecule
D 4 1
B. 1 atom
C. 1 kg
5
D. 1 mole
Answer: D
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**5.** SI unit of temperature is

A. Kelvin

B. degree Celsius

C. degree Fahrenheit

D. Dalton

Answer: A



- 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**



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

#### **Answer: D**



**8.** The number of molecules in  $22.4cm^3$  of nitorgen gas at STP is

A. 
$$6.02 imes 10^{20}$$

$$\texttt{B.}~6.02\times10^{23}$$

C. 
$$22.4 imes 10^{20}$$

D. 
$$22.4 imes 10^{23}$$

#### **Answer: A**



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**9.** Number of moles of water in 1L of  $H_2O$  with density

 $1g/cm^3$  are

A. 55.56

B. 45.56

C. 56.55

D. 56.45

**Answer: A** 



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**10.** At STP 2g of helium gas (molar mass =4) occupies a volume of

A. 22.4L

B. 11.2L

C. 5.6L

D. 2L

#### **Answer: B**



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11. A measured temperature on Fahrenheit scale is

 $200\,^{\circ}\,F$ . What will this reading be one celsium scale?

- A.  $40^{\circ}\,C$
- B.  $94^{\circ}\,C$
- C.  $93.3^{\circ}$  C
- D.  $30^{\circ} C$

#### **Answer: C**



**12.** What is the mass percent of carbon in carbon dioxide?

- A. 0.034~%
- $\mathsf{B.}\ 27.27\ \%$
- $\mathsf{C.}\ 3.4\ \%$
- D.  $28.7\,\%$

#### **Answer: B**



13. The empirical formula and molecular mass of a compound are  $CH_2O$  and 180 g respectively. What will be the molecular formula of the compound?

- A.  $C_9H_{18}O_9$
- B.  $CH_2O$
- C.  $C_6H_{12}O_6$
- D.  $C_2H_4O_2$

#### **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 compound is fixed

#### **Answer: C**



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**15.** Which of the following reactions is not correct according to the law of conservation of mass?

A. 
$$2Mg + O_2 
ightarrow 2MgO$$

B. 
$$CH_3H_8+O_2
ightarrow CO_2+H_2O$$

$$\mathsf{C.}\,P_4 + 5O_2 \rightarrow P_4O_{10}$$

D. 
$$CH_4 + 2O_2 
ightarrow CO_2 + 2H_2O$$

#### **Answer: B**



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**16.** The physical state of a substance with lot of empty intermolecular space is

- A. solid
- B. liquid
- C. gas
- D. plasma

**Answer: C** 



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





**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 Watch Video Solution** 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.  $2n^2$ 

C.  $(n+1)^2$ 

 $\mathsf{D.}\left(2n\right)^2$ 

#### **Answer: B**



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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**



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**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. 
$${}^{12}_{6}X, {}^{13}_{6}Y$$

B. 
$$^{35}_{17}X$$
,  $^{37}_{17}Y$ 

$$\mathsf{C}.\,_{6}^{14}X,_{7}^{14}Y$$

D. 
$${}^{8}_{4}X, {}^{9}_{4}Y$$

#### **Answer: C**



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**26.** Which of the following statement is not correct about the characteristics 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**



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**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

#### Answer: C

## 28. Deuterium necleus contains

A. 
$$1p+1n$$

$$\mathsf{B.}\,2p+0n$$

C. 
$$1p + 1e^{-1}$$

$$D.2p+2n$$

#### **Answer: A**



**29.** Which one of the following pairs constitutes isotones?

- A.  $^{13}_6C$  and  $^{14}_6C$
- B.  $^{13}_{6}C$  and  $^{14}_{7}N$
- C.  $^{14}_{7}N$  and  $^{19}_{9}F$
- D.  $^{14}_{7}N$  and  $^{15}_{7}N$

#### **Answer: B**



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**30.** A metallic ion  $m^{2+}$  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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<b>31.</b> The first attempt to classify elements was made by
A. Mendeleev
B. Newland
C. Lothar Meyer
D. Dobereiner
Answer: D
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**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**



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**33.** Which of the following sets belong to the sam period?

- A. Li,Na,K
- B. Li,Mg,Ca

C. Ni,Cu,Zn

D. F,Cl,Br

#### **Answer: C**



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**34.** Which of the following is the largest in size?

A.  $Cl^-$ 

B.  $S^{2-}$ 

C.  $Na^+$ 

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**



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**36.** In the long form of periodic table the total number of groups are

- A. 15
- B. 18
- C. 12
- D. 8

**Answer: B** 



**37.** Halgens are placed in which group of elements in modern periodic table?

- A. 17
- B. 2
- C. 4
- D. 6

#### **Answer: A**



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38. Which pair of elements has similar properties?

- A. 13,31
- B. 11,20
- C. 12,10
- D. 21,33

### Answer: A



- **39.** The most electronegative element is
  - A. compound
  - B. B

- C.O
- D. N

#### **Answer: C**



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**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



**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

**Answer: D** 

**42.** Amongst the followng the most metallic elements

is

A. F

B. Ca

C. Li

D. Na

**Answer: B** 



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<b>43.</b> 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**



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**45.** In the reaction  $A+B^+ o A^++B$ , A is

A. oxidised

B. reduced

C. an oxidising agent

D. being reduced

**Answer: A** 



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**46.** Which of the following is not an example of redox reaction?

A. 
$$CuO + H_2 
ightarrow Cu + H_2O$$

B. 
$$Fe_2O_3+3CO 
ightarrow 2Fe+3CO_2$$

C. 
$$2K+F_2
ightarrow 2KF$$

D. 
$$BaCl_2 + H_2SO_4 
ightarrow BaSo_4 + 2HCl$$

#### **Answer: D**



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**47.** Which of the following statement is not true about the following decomposition reaction.

$$2KClO_3 
ightarrow 2KCl + 3O_2$$

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.

$$Zn+2HCl
ightarrow ZnCl_2+H_2$$

- 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. 
$$2KBr+Cl_2
ightarrow 2KCl+Br_2$$

B. 
$$2Na + H_2O 
ightarrow 2NaOH + H_2$$

C. 
$$2MgO 
ightarrow 2Mg + O_2$$

D. 
$$ZnCO_3 
ightarrow ZnO + CO_2$$

## **Answer: C**



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## 50.

$$BaCl_{2\,(\,aq\,)}\,+H_2SO_{4\,(\,aq\,)}\,
ightarrow\,BaSO_{4\,(\,s\,)}\,+2HCl_{\,(\,aq\,)}$$

is

A. a non redox reaction

B. double displacement reaction

C. a precipatation reaction

D. all these are correct

#### **Answer: D**

## 51. The formula of sodium phosphate is

- A.  $NaPO_4$
- $\mathsf{B.}\, Na_2PO_4$
- C.  $Na_3PO_4$
- D.  $NaPO_2$

#### **Answer: C**



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$$MnO_2 + 4HCl 
ightarrow MnCl_2 + 2H_2O + Cl_2$$

- A.  $MnO_2$  is being reduced to  $MnCl_2$
- B. HCl is being reduced to  $Cl_2$
- C.  $MnO_2$  is acting as a reducing agent
- D. HCl is an oxidant

## **Answer: A**



**53.**  $2FeCl_3 + SnCl_2 
ightarrow 2FeCl_2 + SnCl_4$  is an example of

A. non redox reaction

B. double displacement reaction

C. redox reaction

D. None of these

## **Answer: C**



## 54. In the balanced reaction

$$aFe_2O_3 + bH_2 \rightarrow cFe + dH_2O$$

a, b, 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** 



- 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**



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

- C. neutral
- D. None of these

#### **Answer: A**



- **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.  $NaHCO_3$ 

 $\mathsf{C}.\,KOH$ 

D.  $H_2SO_4$ 

### **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
- $C. CO_2$
- D.  $Na_2O$

#### **Answer: C**



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**63.**  $CuSO_4.5H_2O$  becomes anhydrous  $CuSO_4$  on heating. This property of losing water molecules of crystallisation is known as

A. deliquescence

- B. dehydration
- C. efflorescence
- D. hydrolysis

#### **Answer: C**



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**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  $\;
  ightarrow Mg(OH)_2$
- B. quick lime  $\,
  ightarrow\,$  CaO
- C. vinegar  $\;
  ightarrow CH_3COOH$
- D. washing soda  $\;
  ightarrow\, NaHCO_3$

#### **Answer: D**



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**66.** Which of the following base is used to neutralise acidity in the stomach?

A. KOH

B. NaOH

 $\mathsf{C}.Mg(OH)_2$ 

D. all these

#### **Answer: C**



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**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** 



**68.** Which of the following has highest concentration of hydrogen ion?

- A. Solutioni with pH=4
- B. solution with pH=7
- C. Solution with pH=5
- D. Solution with pH=2

**Answer: D** 



**69.** Which of the following molecule involves electrovalent bond?

- A.  $H_2$
- B.  $CH_4$
- $\mathsf{C.}\,\mathit{CaCl}_2$
- D. HCl

**Answer: C** 



**70.** Among the following, the molecule with linear geometry is

- A.  $C_2H_4$
- B.  $CO_2$
- $\mathsf{C}.\,NH_3$
- D.  $H_2O$

**Answer: B** 



**71.** Total number of sigma bonds involved in ethylene molecule  $C_2H_4$  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**



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

- C. A and B are covalently bonded
- D. the compound AB is electrovalent

#### **Answer: D**



- **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

## **Answer: B**



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**75.** Which of the following has a bond angle of  $109^{\circ}$ ?

A.  $CO_2$ 

B.  $H_2O$ 

C.  $CH_4$ 

D.  $SO_2$ 

### **Answer: C**



**76.** The angle between two covalet bonds is minimum in

- A.  $CH_4$
- B.  $C_2H_2$
- C.  $NH_3$
- $\operatorname{D.} H_2O$

## **Answer: D**



**77.** Which of the following molecules has hargest bond angle?

- A.  $H_2O$
- B.  $NH_3$
- $\mathsf{C}.\,CO_2$
- D.  $CH_4$

## **Answer: C**



**78.** Which of the following species has tetrahedral geometry?

- A.  $BF_4^{\,-}$
- B.  $CH_4$
- C.  $NH_4^{\ +}$
- D. all these

#### **Answer: D**



**79.** Which of the following compound contains ionic bond, covalent bond and datic bond?

- A. NaCl
- B.  $CaCl_2$
- C. HBr
- D.  $NH_4Cl$

#### **Answer: D**



**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. 
$$CaSO_4$$

B. 
$$CaSO_4\frac{.1}{2}H_2O$$

C. 
$$CaSO_4$$
.  $H_2O$ 

D. 
$$CaSO_4.2H_2O$$



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## 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



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- 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

### **Answer: B**



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## 84. The formula of soda ash is

A. 
$$Na_2CO_3.10H_2O$$

$$\operatorname{B.} Na_{2}CO_{3}.2H_{2}O$$

C. 
$$Na_2CO_3$$
.  $H_2O$ 

D. 
$$Na_2CO_3$$

### **Answer: D**



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85. Which of the following is an ore of zin	c?

- A. Calamine
- B. Galena
- C. Siderite all these
- D. all these



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

A. GalenaB. CinnabarC. Copper pyriteD. all these

### **Answer: D**



**87.** Which of the following is not the criterion of purity of a substance?

- A. solubility
- B. melting point

- C. boiling point
- D. density



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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** 



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**89.** Vinegar contains\_\_\_\_\_functional group

$$A.-OH$$

$$\begin{array}{c} O \\ | \ | \\ \mathsf{B.} - C - H \end{array}$$

$${\overset{O}{\operatorname{C.}}} - \overset{|}{C} -$$

$$\begin{array}{c} O \\ | \ | \\ \text{D.} - C - OH \end{array}$$

**Answer: D** 

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**90.** The IUPAC name of  $CH_3 \equiv C - CH_2 - CH_2OH$  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**



# 91. The principal functional group present in



- A. an aldehyde
- B. ketone
- C. alcohol
- D. oxy

### **Answer: B**



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### 92. The IUPAC name of



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

### **Answer: A**



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**93.** Each of the following hydrocarbon belongs to an alkane series except

- A.  $C_3H_8$
- B.  $C_4H_6$
- $\mathsf{C}.\,CH_4$
- D.  $C_5H_{12}$

### **Answer: B**



**94.** Which of the following hydrocarbon contains maximum number of covalent bonds?

- A.  $C_3H_8$
- B.  $C_4H_6$
- C.  $C_4H_{10}$
- D.  $C_4H_8$

#### **Answer: C**



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**95.** Aromatic compounds burn with

A. blue flame
B. green flame
C. red flame
D. sooty flame
Answer: D
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<b>96.</b> The number of structural isomers for $C_6H_{14}$ is :
A. 3
B. 4

- C. 5
- D. 6

## **Answer: C**



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**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**



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## 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.  $C_4H_6$
- B.  $C_4H_8$
- $\mathsf{C}.\,C_3H_6$
- D. all these

**Answer: D** 



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100. Neopentane and isopentane are

- A. allotropes
- B. homologous
- C. isomers
- D. isotopes

### **Answer: C**



- **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**



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**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. 
$$12.405 imes 10^{23}$$

B. 
$$12.405 imes 10^{22}$$

$$\mathsf{C.}\,6.022 imes 10^{23}$$

D.  $6.022 imes 10^{22}$ 

### **Answer: A**



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**103.** The turmeric solution will turn red by an aqueous solution of

- A. potassium acetate
- B. copper sulphate
- C. sodium sulphate
- D. ferric chloride



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## **104.** Which of the following reaction is feasible?

A. 
$$Ba_{\,(\,s\,)}\,+K_2SO_{4\,(\,aq\,)}\, o BaSO_{4\,(\,aq\,)}\,+2K_{\,(\,s\,)}$$

В.

$$Zn_{\,(\,s\,)}\,+2AgNO_{3\,(\,aq\,)}\, o Zn(NO_3)_{\,(\,aq\,)}\,+2Ag_{\,(\,s\,)}$$

C.

$$Mg(s) + Na_2SO_{4\,(\,aq\,)} \,
ightarrow MgSO_{4\,(\,aq\,)} \, + 2Na_{\,(\,s\,)}$$

D. 
$$Cu(s) + MgSO_{4\,(\,aq\,)} \, 
ightarrow \, CuSO_{4\,(\,aq\,)} \, + Mg_{\,(\,s\,)}$$

### **Answer: B**



- **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 yellow

D. oxidised and the colour changes from orange to

green

### **Answer: D**



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**106.** Which of the following product(s) obtained when iron reacts with steam?

A. 
$$FeO+H_2$$

B. 
$$Fe_2O_3+H_2$$

$$\mathsf{C.}\, Fe_2O_3 + O_2$$

D. 
$$Fe_3O_4+H_2$$

### **Answer: D**



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**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. 
$$CuCO_3$$

B. 
$$CuO + CuCO_3$$

$$C. Cu(OH)_2. CuCO_3$$

D. 
$$CuO$$

### **Answer: C**

## 108. Polymer used in non stick utensils is

- A. polyvinyl chloride
- B. polyethene
- C. polystyrene
- D. polytetrafluoroethene

#### **Answer: D**



### 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**

