



# PARISHRAMA NEET ACADEMY

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## KCET – 2022 CHEMISTRY CODE B-3

### PROVISIONAL ANSWER KEY - 2022

1. A first order reaction is half completed in 45 minutes. How long does it need 99.9% of the reaction to be completed?

- (A) 10 Hours      (B) 20 Hours      (C) 5 Hours      (D) 7.5 Hours

Ans (D)

$$\begin{aligned} t_{99.9} &= 10t_{50} \\ &= 10 \times 45 \text{ min} \\ &= \frac{10 \times 45}{60} \text{ hr} \end{aligned}$$

2. The rate of the reaction:  $\text{CH}_3\text{COOC}_2\text{H}_5 + \text{NaOH} \rightarrow \text{CH}_3\text{COONa} + \text{C}_2\text{H}_5\text{OH}$  is given by the equation,  $\text{Rate} = K [\text{CH}_3\text{COOC}_2\text{H}_5] [\text{NaOH}]$ . If concentration is expressed in  $\text{mol L}^{-1}$ , the unit of K is

- (A)  $\text{L mol}^{-1} \text{s}^{-1}$       (B)  $\text{s}^{-1}$       (C)  $\text{mol}^{-2} \text{L}^2 \text{s}^{-1}$       (D)  $\text{mol L}^{-1} \text{s}^{-1}$

Ans (A)

$$\text{Rate} = k[\text{CH}_3\text{COOC}_2\text{H}_5]^1 [\text{NaOH}]^1$$

$$\text{Order} = 1 + 1 = 2$$

$$k_n = \text{mol}^{1-n} \cdot \text{L}^{n-1} \cdot \text{s}^{-1}$$

$$k_2 = \text{mol}^{-1} \cdot \text{L} \cdot \text{s}^{-1}$$

$$= \text{L} \cdot \text{mol}^{-1} \cdot \text{s}^{-1}$$

3. Colloidal solution commonly used in the treatment of skin disease is

- (A) Colloidal Gold      (B) Colloidal Antimony  
(C) Colloidal Sulphur      (D) Colloidal Silver

Ans (C)

Colloidal sulphur used in treatment of skin disease.



4. Specific conductance of 0.1 M  $\text{HNO}_3$  is  $6.3 \times 10^{-2} \text{ ohm}^{-1} \text{ cm}^{-1}$ . The molar conductance of the solution is

- (A)  $6.300 \text{ ohm}^{-1} \text{ cm}^2 \text{ mol}^{-1}$  (B)  $63.0 \text{ ohm}^{-1} \text{ cm}^2 \text{ mol}^{-1}$   
**(C)  $630 \text{ ohm}^{-1} \text{ cm}^2 \text{ mol}^{-1}$**  (D)  $315 \text{ ohm}^{-1} \text{ cm}^2 \text{ mol}^{-1}$

**Ans (C)**

$$\Lambda_m = \frac{\kappa \times 1000}{M}$$

$$= \frac{6.3 \times 10^{-2} \times 1000}{0.1} = 630 \text{ ohm}^{-1} \text{ cm}^2 \text{ mol}^{-1}$$

5. For spontaneity of a cell, which correct?

- (A)  $\Delta G = +ve, \Delta E = +ve$  (B)  **$\Delta G = -ve$**   
 (C)  $\Delta G = 0, \Delta E = 0$  (D)  $\Delta G = -ve, \Delta E = 0$

**Ans (B)**

$$\Delta G = -nF(\Delta E)$$

For spontaneity of a cell  $\Delta E = +ve > 0$

$$\Delta G = -ve < 0$$

6. For  $n^{\text{th}}$  order of reaction, Half-life period is directly proportional to

- (A)  $a^{n-1}$  (B)  **$a^{1-n}$**  (C)  $\frac{1}{a^{n-1}}$  (D)  $\frac{1}{a^{1-n}}$

**Ans (B) and (C)**

$$t_{1/2} \propto \frac{1}{a^{n-1}} \text{ or } t_{1/2} \propto a^{1-n}$$

7. Half-life of a reaction is found to be inversely proportional to the fifth power of its initial concentration, the order of reaction is

- (A) 5 (B) **6** (C) 3 (D) 4

**Ans (B)**

$$t_{1/2} \propto \frac{1}{a^{n-1}} \propto \frac{1}{a^5}$$

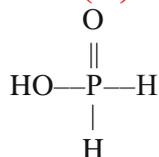
$$\therefore n - 1 = 5$$

$$n = 6$$

8. The strong reducing property of hypophosphorous acid is due to

- (A) **two P-H bonds**  
 (B) presence of phosphorus in its highest oxidation state

- (C) its concentration  
(D) the positive valency of phosphorus

**Ans (A)**

Due to the presence of two P–H bonds.

9. A transition metal exists in its highest oxidation state. It is expected to behave as

- (A) an oxidizing agent (B) a reducing agent  
(C) a chelating agent (D) a central metal in a co-ordination compound

**Ans (A)**

For example  $\text{KMnO}_4$ ,  $\text{K}_2\text{Cr}_2\text{O}_7$  used as oxidising agents.

10. What will be the value of  $x$  in  $\text{Fe}^{x+}$ , if the magnetic moment  $\mu = \sqrt{24}$  BM?

- (A) 0 (B) +1 (C) +2 (D) +3

**Ans (C)**

Spin only magnetic moment =  $\sqrt{n(n+2)}$  BM

Given magnetic moment =  $\sqrt{24}$  Bm

$$\sqrt{n(n+2)} = \sqrt{24}$$

$$n = 4$$



11. Which can adsorb larger volume of hydrogen gas?

- (A) Finely divided platinum (B) Colloidal  $\text{Fe}(\text{OH})_3$   
(C) Finely divided nickel (D) Colloidal solution of palladium

**Ans (D)**

Surface area of palladium is maximum in its colloidal solution.

12. The property of halogens which is not correctly matched is

- (A)  $\text{I} > \text{Br} > \text{Cl} > \text{F}$  (density)  
(B)  $\text{F} > \text{Cl} > \text{Br} > \text{I}$  (electron gain enthalpy)  
(C)  $\text{F} > \text{Cl} > \text{Br} > \text{I}$  (ionization enthalpy)  
(D)  $\text{F} > \text{Cl} > \text{Br} > \text{I}$  (electronegativity)

**Ans (B)**

$$\Delta H_{\text{eg}} = \text{Cl} > \text{F} > \text{Br} > \text{I}$$

F has lower electron gain enthalpy than chlorine due to small size 2p-orbital of fluorine.

13. Which noble gas has least tendency to form compounds?

- (A) Ar (B) Kr (C) He (D) Ne

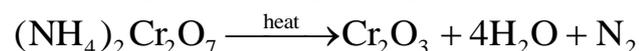
**Ans (C)**

Due to small size and high ionization enthalpy of He.

14.  $(\text{NH}_4)_2\text{Cr}_2\text{O}_7$  on heating liberates agas. The same gas will be obtained by

- (A) treating  $\text{H}_2\text{O}_2$  with  $\text{NaNO}_2$  (B) treating  $\text{Mg}_3\text{N}_2$  with  $\text{H}_2\text{O}$   
(C) heating  $\text{NH}_4\text{NO}_3$  (D) heating  $\text{NH}_4\text{NO}_2$

**Ans (D)**



15. The complex hexamine platinum (IV) chloride will give \_\_\_\_\_ number of ions on ionization.

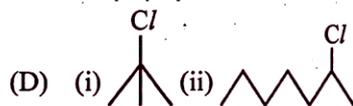
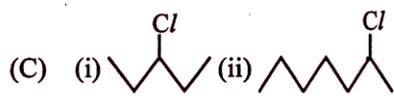
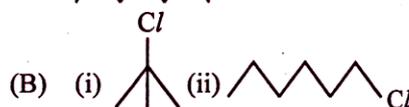
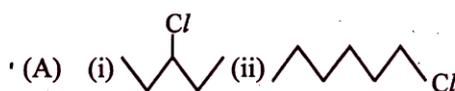
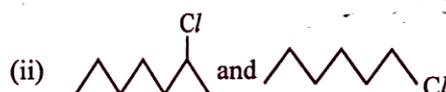
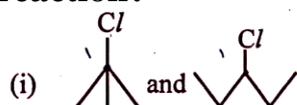
- (A) 3 (B) 2 (C) 5 (D) 4

**Ans (C)**



Number of ions = one complex ion + four chloride ions

16. In the following pairs of halogen compounds, which compound undergoes faster  $\text{S}_{\text{N}}1$  reaction?



**Ans (D)**

Reactivity order of alkyl halides in  $\text{S}_{\text{N}}1$  reaction is  $3^\circ > 2^\circ > 1^\circ$

17. The only Lanthanoid which is radioactive

- (A) Promethium (B) Praseodymium  
(C) Lanthanum (D) Cerium

**Ans (A)**

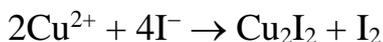
Promethium is radioactive lanthanoid elements.

18. All Cu (II) halides are known, except the iodide, the reason for it is that

- (A)  $\text{Cu}^{2+}$  has much more negative hydration enthalpy.  
 (B)  $\text{Cu}^{2+}$  ion has smaller size.  
 (C) Iodide is bulky ion.

**(D)  $\text{Cu}^{2+}$  oxidises iodide to iodine.**

**Ans (D)**



19. The correct IUPAC name of *cis-platin* is

- (A) diammine dichlorido platinum (O)  
 (B) dichlorido diammine platinum (IV)  
**(C) diammine dichlorido platinum (II)**  
 (D) diammine dichlorido platinum (IV)

**Ans (C)**

*cis-platin* is  $[\text{Pt}(\text{NH}_3)_2\text{Cl}_2]$

IUPAC name: diammine dichlorido platinum (II)

20. Crystal Field Splitting Energy (CFSE) for  $[\text{CoCl}_6]^{4-}$  is  $1800 \text{ cm}^{-1}$ . The Crystal Field Splitting Energy (CFSE) for  $[\text{CoCl}_6]^{4-}$  will be

- (A)  $8000 \text{ cm}^{-1}$**  (B)  $10,000 \text{ cm}^{-1}$  (C)  $18000 \text{ cm}^{-1}$  (D)  $16000 \text{ cm}^{-1}$

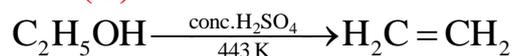
**Ans (A)**

$$\Delta t = \frac{4}{9}\Delta_o = \frac{4}{9}(18000) = 8,000 \text{ cm}^{-1}$$

21. The major product obtained when ethanol is heated with excess of concentrated  $\text{H}_2\text{SO}_4$  at 443 K is

- (A) ethane (B) methane **(C) ethene** (D) ethyne

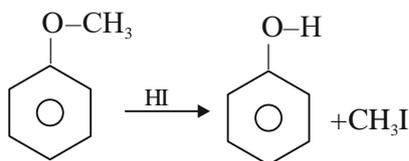
**Ans (C)**



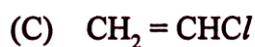
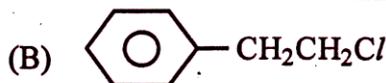
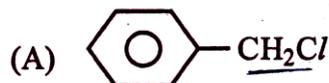
22. Among the following, the products formed by the reaction of anisole with HI are

- (A) Benzene + Methanol (B) Phenol + Methane  
**(C) Phenol + Iodomethane** (D) Sodium phenate + Methanol

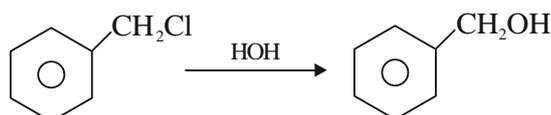
**Ans (C)**



23. Which one of the following Chlorohydrocarbon readily undergoes solvolysis?



Ans (A)



Due to stable benzyl carbocation

24. Identify the products A and B in the reactions



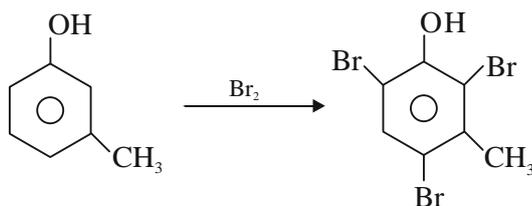
Ans (A)



25. An organic compound with molecular formula  $\text{C}_7\text{H}_8\text{O}$  dissolves in NaOH and gives a characteristic colour with  $\text{FeCl}_3$ . On treatment with bromine, it gives a tribromo derivative  $\text{C}_7\text{H}_5\text{OBr}_3$ . The compound is



Ans (A)

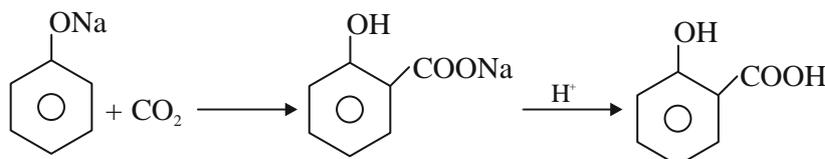


Neutral  $\text{FeCl}_3$  test is a characteristic test for phenolic group.

26. In Kolbes reaction the reacting substances are

- (A) Sodium phenate and  $\text{CCl}_4$  (B) Phenol and  $\text{CHCl}_3$   
**(C) Sodium phenate and  $\text{CO}_2$**  (D) Phenol and  $\text{CCl}_4$

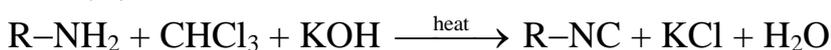
**Ans (C)**



27. In Carbylamine test for primary amines the resulting foul smelling product is

- (A)  $\text{CH}_3\text{NC}$**  (B)  $\text{COCl}_2$  (C)  $\text{CH}_3\text{NCl}_2$  (D)  $\text{CH}_3\text{CN}$

**Ans (A)**



28. Ethanoic acid undergoes Hell-Volhard Zelinsky reaction but Methanoic acid does not, because of

- (A) absence of  $\alpha$ -H atom in ethanoic acid  
 (B) higher acidic strength of ethanoic acid than methanoic acid  
 (C) presence of  $\alpha$ -H atom in methanoic acid  
**(D) presence of  $\alpha$ -H atom in ethanoic acid**

**Ans (D)**

Condition to exhibit HVZ reaction is presence of  $\alpha$ -hydrogen in a given carboxylic acid.

29. The general name of the compound formed the reaction between aldehyde and alcohol is

- (A) Glycol (B) Acetate (C) Ester **(D) Acetal**

**Ans (D)**

Nucleophilic condition of aldehydes and ketones forms corresponding hemiacetals and acetals.

30. Reaction by which benzaldehyde cannot be prepared is

- (A) Toluene  $\xrightarrow[\text{(ii) H}_3\text{O}^+]{\text{(i) CrO}_2\text{Cl}_2 \text{ in CS}_2}$   
 (B) Benzoyl chloride +  $\text{H}_2 \xrightarrow[\text{heat}]{\text{Pd-BaSO}_4}$   
 (C) Benzene +  $\text{CO} + \text{HCl} \xrightarrow{\text{anhydrous AlCl}_3}$   
**(D) Benzoic acid  $\xrightarrow{\text{Zn-Hg and conc.HCl}}$**

**Ans (D)**

Option (A), (B) and (C) are the methods of preparation of benzaldehyde.

31. The test to differentiate between pentan-2-one and pentan-3-one is

- (A) Fehling's test  
(B) Iodoform test  
(C) Baeyer's test  
(D) Benedict's tests

**Ans (B)**

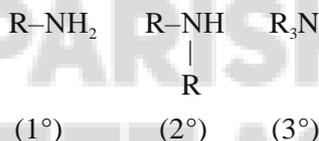
Iodoform test is useful to differentiate pentan-2-one and pentan-3-one because pentan-2-one has methyl keto group but not pentan-3-one.

32. A secondary amine is

- (A) a compound with an  $\text{NH}_2$  group on the carbon atom in number 2 position  
(B) a compound in which 2 of the hydrogen of  $\text{NH}_3$  have been replaced by organic groups  
(C) an organic compound with two  $\text{NH}_2$  group  
(D) a compound with two carbon atom and an  $\text{NH}_2$  group

**Ans (B)**

Amines are classified based on attachment of number of alkyl or aryl groups attached to the N.



33. Which of the following is correctly matched?

- (A) Bakelite – Novolac  
(B) Polyester – tetrafluoroethene  
(C) Nylon – acrylonitrile  
(D) Teflon – copralactum

**Ans (A)**

Novolac on further polymerization produces bakelite.

34. Which institute has approved the emergency use of 2-deoxy-D-Glucose as additive therapy for COVID-19 patients?

- (A) Ministry of Health and Family Welfare  
(B) Drug Controller General of India  
(C) Indian Council of Medical Research  
(D) World Health Organisation

**Ans (B)**

Drug controller general of India has approved the emergency use of 2-deoxy-D-Glucose.

35. A Nucleic acid, whether DNA or RNA gives on complete hydrolysis, two purine bases, two pyrimidine bases, a pentose sugar and phosphoric. Nucleotides which are intermediate products in the hydrolysis contain

- (A) purine or pyrimidine base and ortho-phosphoric acid  
**(B) Purine or pyrimidine base, a pentose sugar and ortho-phosphoric acid**  
 © purine or pyrimidine base and pentose sugar.  
 (D) a purine base, pentose sugar and ortho-phosphoric acid

**Ans (B)**

Nucleic acid on hydrolysis produces nitrogenous base + pentose sugar + ortho phosphoric acid.

36. Which is most VISCIOUS?

- (A) Ethylene glycol **(B) Glycerol**  
 (C) Methanol (D) Ethanol

**Ans (B)**

Viscosity  $\propto$  force of attraction (H-bonding)

37. The volume of 2.8 g of CO at 27 °C and 0.821 atm pressure is

(R = 0.08210 L atm K<sup>-1</sup> mol<sup>-1</sup>)

- (A) 3 litres** (B) 30 litres (C) 0.3 litres (D) 1.5 litres

**Ans (A)**

$$V = \frac{nRT}{P}$$

$$n_{\text{CO}} = \frac{2.8}{28} = 0.1$$

$$V = \frac{0.1 \times 0.0821 \times 300}{0.821} = 3 \text{ litres}$$

38. The work done when 2 moles of an ideal gas expands reversibly and isothermally from a volume of 1 L to 10 L at 300 K is (R = 0.0083 kJ K mol<sup>-1</sup>)

- (A) 0.115 kJ (B) 58.5 kJ **(C) 11.5 kJ** (D) 5.8 kJ

**Ans (C)**

$$W = 2.303nRT \log_{10} \left[ \frac{V_2}{V_1} \right]$$

$$= 2.303 \times 2 \times 0.0083 \times 300 \times \log_{10} \left( \frac{10}{1} \right) = 11.5 \text{ kJ}$$

39. An aqueous solution of alcohol contains 18 g of water and 414 g of alcohol. The mole fraction water is

- (A) 0.7 (B) 0.9 (C) **0.1** (D) 0.4

**Ans (C)**

$$\chi_{\text{H}_2\text{O}} = \frac{n_{\text{H}_2\text{O}}}{n_{\text{H}_2\text{O}} + n_{\text{C}_2\text{H}_5\text{OH}}} \quad n_{\text{H}_2\text{O}} = \frac{18}{18} = 1$$

$$= \frac{1}{1+9} = 0.1 \quad n_{\text{C}_2\text{H}_5\text{OH}} = \frac{414}{46} = 9$$

40. If wavelength of photon is  $2.2 \times 10^{-11}$  m and  $h = 6.6 \times 10^{-34}$  s, then momentum of photon

- (A)  $1.452 \times 10^{-44}$  kg ms<sup>-1</sup> (B)  $6.89 \times 10^{+43}$  kg ms<sup>-1</sup>  
(C)  **$3 \times 10^{-23}$  kg ms<sup>-1</sup>** (D)  $3.33 \times 10^{-22}$  kg ms<sup>-1</sup>

**Ans (C)**

$$\lambda = \frac{h}{p} \Rightarrow p = \frac{h}{\lambda}$$

$$p = \frac{6.6 \times 10^{-34}}{2.2 \times 10^{-11}} = 3 \times 10^{-23}$$

41. Elements X, Y and Z have atomic numbers 19, 37 and 35 respectively. Which of the following statements is true about them?

- (A) Z would have the highest ionization potential.  
(B) Y would have the highest ionization potential.  
(C) Their ionization potential, would increase with increasing atomic number.  
(D) **Y would have an ionization potential between those of X and Z.**

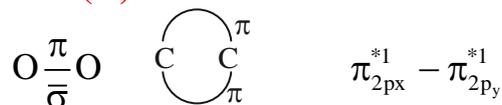
**Ans (D)**

Down to the group of ionization enthalpy decreases.

42. In oxygen and carbon molecule the bonding is

- (A) **O<sub>2</sub> : 1σ, 1π; C<sub>2</sub> : 0σ, 2π** (B) O<sub>2</sub> : 0σ, 2π ; C<sub>2</sub> : 2σ, 0π  
(C) O<sub>2</sub> : 1σ, 1π; C<sub>2</sub> : 1α, 1π (D) O<sub>2</sub> : 2σ, 0π; C<sub>2</sub> : 0σ, 2π

**Ans (A)**



43. Amphoteric oxide among the following:

- (A) Ag<sub>2</sub>O (B) SnO<sub>2</sub> (C) **BeO** (D) CO<sub>2</sub>

**Ans (C)**

BeO-Amphoteric oxide.

**44. Which property of CO<sub>2</sub> makes it biologically and geo-chemically important?****(A) Its low solubility in water**

(B) Its high compressibility

(C) Its acidic nature

(D) Its colourless and odourless nature

**Ans (A)**

Its low solubility in water

Due to low solubility of CO<sub>2</sub> in water, it is important in biological and geochemical process.**45. The IUPAC name for  $\text{CH}_3 - \overset{\text{O}}{\parallel} \text{C} - \text{CH}_2 - \text{CH}_2 - \overset{\text{O}}{\parallel} \text{C} - \text{O} - \text{H}$  is**

(A) 1-carboxybutan-3-one

**(B) 4-oxopentanoic acid**

(C) 1-hydroxy pentane-1, 4-dione

(D) 1, 4-dioxopentanol

**Ans (B)**

4-oxopentanoic acid.

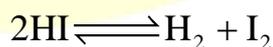
**46. 1 mole of HI is heated in a closed container of capacity of 2 L. At equilibrium half a mole of HI is dissociated. The equilibrium constant of the reaction is**

(A) 0.25

(B) 0.35

**(C) 1**

(D) 0.5

**Ans (C)**

Initial      1            0      0

At equ.    ½            ¼    ¼

$$k = \frac{[\text{H}_2][\text{I}_2]}{[\text{HI}]^2}$$

$$k = \frac{\left(\frac{1}{4}\right)\left(\frac{1}{4}\right)}{\left(\frac{1}{2}\right)^2} = \frac{1}{4} = 0.25$$

**47. Which among the following has highest pH?**(A) 1 M H<sub>2</sub>SO<sub>4</sub>

(B) 0.1 M NaOH

(C) 1 M HCl

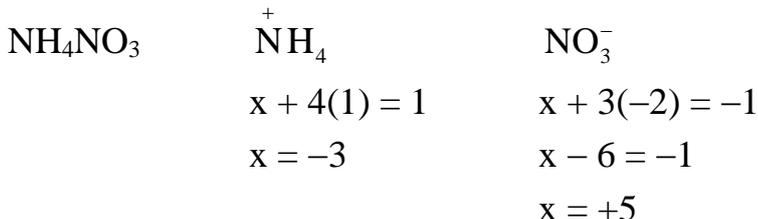
**(D) 1 M NaOH****Ans (D)**1 M NaOH; [OH<sup>-</sup>] 1, pOH = -log 1 = 0

∴ pH = 14

48. In which of the following compounds, an element exhibits two different oxidation states?

- (A)  $N_2H_4$                       (B)  $N_3H$                       (C)  $NH_2CONH_2$                       (D)  $NH_4NO_3$

**Ans (D)**



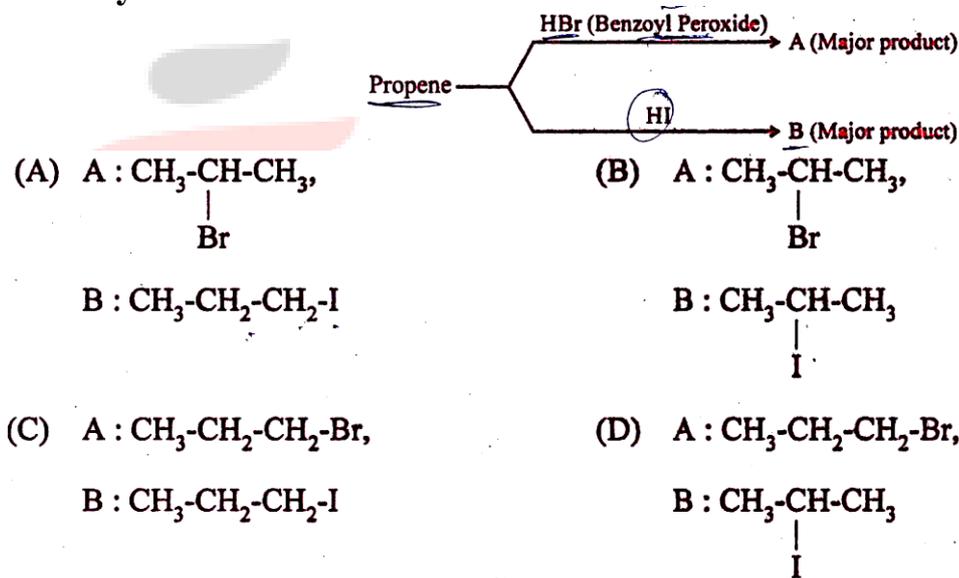
49. Which of the following hydrides is electron deficient?

- (A)  $CH_4$                       (B)  $B_2H_6$                       (C)  $NaH$                       (D)  $CaH_2$

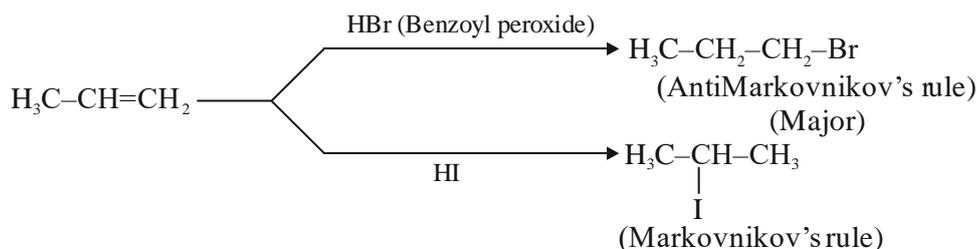
**Ans (B)**

$B_2H_6$  [13<sup>th</sup> group hydrides are electron deficient and also Lewis acids]

50. Identify A and B in the reaction



**Ans (D)**



51. Vacant space in body centered cubic lattice unit cell is about

- (A) 23%                      (B) 46%                      (C) 32%                      (D) 10%

**Ans (C)**

BCC-void space – 32%

52. How many number of atoms are there in a cube based unit cell having one atom on each corner and 2 atom on each body diagonal of cube?

- (A) 4                      (B) 9                      (C) 8                      (D) 6

Ans (B)

$$\text{Each corner} = 8 \times \frac{1}{8} = 1$$

$$4 \text{ body diagonals} = 4 \times 2 = 8$$

$$\text{Total} = 9$$

53. Which of the following is NOT true about the amorphous solids?

- (A) Amorphous solids can be moulded by heating.  
(B) They are anisotropic in nature.  
(C) On heating they may become crystalline at certain temperature.  
(D) They may become crystalline on keeping for long time.

Ans (B)

They are anisotropic in nature.

54. Which of the following colligative properties can provide molar mass of proteins, polymers, and colloids with greater precision?

- (A) Depression in freezing point  
(B) Osmotic pressure  
(C) Relative lowering of vapour pressure  
(D) Elevation in boiling point

Ans (B)

Osmotic pressure can provide molar mass of proteins, polymers and colloids.

55. In Fuel cells \_\_\_\_\_ are used as catalysts

- (A) Zinc - Mercury                      (B) Lead - Manganese  
(C) Platinum - Palladium              (D) Nickel - Cadmium

Ans (C)

Pt, Pd used as catalysis in fuel cells.

56. The molar conductivity is maximum for the solution of concentration

- (A) 0.005 M              (B) 0.001 M              (C) 0.004 M              (D) 0.002 M

Ans (B)

$$\Lambda_m = \frac{\kappa \times 1000}{M}$$

$$\Lambda_m \propto \frac{1}{\text{Molarity}} \propto \text{Volume}$$

57. Alkali halides do not show dislocation defect because

- (A) Cations and anions have almost equal size.  
 (B) There is large difference in size of cations and anions.  
 (C) Cations and anions have low co-ordination number.  
 (D) Anions cannot be accommodated in vacant spaces.

**Ans (A)**

Cations and anions have low co-ordination number.

58. Solubility of a gas in a liquid increases with

- (A) increase of P and decrease of T      (B) decrease of P and decrease of T  
 (C) increase of P and increase of T      (D) decrease of P and increase of T

**Ans (A)**

Increase of P and decrease of T.

59. The rise in boiling point of a solution containing 1.8 g of glucose in 100 g of solvent is 1 °C. The molal elevation constant of the liquid is

- (A) 2 K kg/mol      (B) 10 K kg/mol      (C) 0.1 K kg/mol      (D) 1 Kkg/mol

**Ans (D)**

$$\Delta T_b = i \times k_b \times m$$

$$0.1 = 1 \times k_b \times \frac{1.8}{180} \times \frac{1000}{100} \Rightarrow k_b = 1$$

60. If 3 g of glucose (molar mass = 180 g) is dissolved in 60 g of water at 15 °C, the osmotic pressure of the solution will be

- (A) 6.57 atm      (B) 5.57 atm      (C) 0.34 atm      (D) 0.65 atm

**Ans (A)**

$$\pi = i \times c \times R \times T = 1 \times \frac{3}{180} \times \frac{1000}{60} \times 0.0821 \times 288 = 6.57 \text{ atm}$$

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