



## CHEMISTRY

# BOOKS - OSWAAL PUBLICATION CHEMISTRY (KANNADA ENGLISH)

Solved Paper 1

#### Exercise

**1.** State Raoult's law of a binary solution for two volatile liquid components.

**Watch Video Solution** 

2. Van't Hoff factor for a solution is more than one. what is the conculsion

drawn form it ?





<b>7.</b> Complete the reaction, $2XeF_4+3H_2O ightarrow - + 6HF.$
Watch Video Solution
8. Name the major product obtained when tertiary butyl bromide is
heated with alcoholic KOH solution.
Watch Video Solution
<b>9.</b> Give the IUPAC name of $CH_2 = CH - CHO$ .
Watch Video Solution
<b>10.</b> Give an example for fat soluble vitamin.
Watch Video Solution

**11.** How is ferrimagnetism arises in substances? Give an example of substance showing ferrrimagnetism.

**12.**  $\lambda_m^{\circ}$  for NaCl, HCl and  $CH_3COONa$  are 126.4,425.9 and 91.0 S cm<sup>2</sup>/mol respectively. Calculate  $\lambda_m^{\circ}$  for  $CH_3COOH$ .

Watch Video Solution

Watch Video Solution

13. In a reaction 2A product, the concentration of A decreases from 0.5

mol L-1 to 0.4 mol L-1 in 10 minutes. Calculate the rate during this interval.



14. Study of actinide elements is difficult. Give two reasons.

#### 15. Explain Kolbe's reaction

**Watch Video Solution** 

16. Among methonic acid and ethanoic acid which is more acidic and why?

Watch Video Solution

17. Name: Artificial sweetening agent used only in cold food.

Watch Video Solution

18. Name: Anionic detergent.

Watch Video Solution

19. Give an example each for antifertility drug and antiseptics .



> Watch Video Solution

**23.** Complete the equation:  $SO_2 + Cl_2 
ightarrow \ldots$ 





**29.** Give any two reasons for the formation of large number of complex

compounds by transition metals.

Watch Video Solution

Watch Video Solution

30. Write the formula to calculate spin only magnetic moment.

Watch Video Solution

**31.** Write the balanced equations in the manufacture of potassium dichromate from chromite ore.



33. Give any two postulates of Werner's theory.

**D** Watch Video Solution

**34.** Write the structure of trans isomer of  $\left[Co(NH_3)_4CI_2\right]^{-1}$ 

Watch Video Solution

35. Calculate the packing efficiency in Face Centred Cubic (FCC) structure.

36. Give any two differences between Frenkel and Schottky defects .

### Watch Video Solution

**37.** The vapour pressure of pure benzene at a certain tempreature is 0.850 bar. A non-volatile. non-electrolyte solid weighing 0.5g, when added to 39.0g of benzene (molar mass of benzene 78g  $mol^{-1}$ ) vapour pressure of the solution then is 0.845 bar. What is the molar mass of the solid substance?

Watch Video Solution

38. What is Reverse Osmosis? Mention its one partical utility.



39. Calculate the equilibrium constant for the reaction

$$Cu(s)+2Ag+(aq)
ightarrow Cu^{+\,2}(aq)+2Ag(s), E_{ ext{cell}}^{\,\circ}=0.46V.$$



**40.** Write half cell reaction and E<sup>o</sup> Value of (SHE) standard hydrogen electrode.

Watch Video Solution

**41.** Derive an intergrated rate for the first order reaction.



42. Write any two factors responsible for effective collisions.

**43.** What is shape selective catalysis? Give an example of such type of

catalyst.

Watch Video Solution
<b>44.</b> What are emulsions? Give an example of oil dispersed in water (o/w)
type emulsion.
Watch Video Solution
<b>45.</b> Mention any one application of adsorption.
Watch Video Solution
<b>46.</b> Write steps involved in $S_N 1$ mechanism to the conversion of tertiary
butyl bromide into tertiary butyl alcohol and mention its order.
Watch Video Solution

**47.** Aryl halides are less reactive towards nucleophilic substitution reaction. Give four reasons.



**51.** Explain Hoffmann bromamide degradation reaction.

Watch Video Solution
52. Name the major product obtained when nitrous aicd is treated with
Methylamine
<b>53.</b> Name the major organic product formed in the following conversion.
(ii) Benzene diazonium chloride is treated with KI.
Watch Video Solution

54. Write Howorth structure of "Lactose".



58. Name the monomer present in natural rubber.

**59.** Name the monomers present in the following polymers.

Neoprene



**60.** What are co-polymers? Give example.

Watch Video Solution

61. How does molarity varies with temperature?

Watch Video Solution

**62.** 10 mL of liquid 'A' is mixed with 10 mL of liquid 'B', the volume of the resultant solution is 19.9 ml. What type of deviation expected from Raoult's law ?

63. Write the mathematical expression for limiting molar conductivity of

sodium chloride.

<b>Watch Video Solution</b>
<b>64.</b> Define collision frequency.
<b>Watch Video Solution</b>
65. Name the adsorbent used to removal of colouring matter from
solution.
<b>Watch Video Solution</b>
<b>66.</b> Give an example of a metal purified by Mond process.

<b>Watch Video Solution</b>
<b>68.</b> Formaldehyde [HCHO] Undergoes Cannizzaro reaction: Give reason.
Vatch Video Solution
<b>69.</b> Deficiency of which vitamin causes the disease scurvy.
<b>Vatch Video Solution</b>
70. Give the differences between crystalline and amorphous solids with
respect to shape and melting point
respect to shape and mercing point.



71. Write the cathodic and anodic cell reactions of Hydrogen-Oxygen fuel

cell.



**75.** Give an example for non narcotic analgesics.

Watch Video Solution
<b>76.</b> Give an example for: Antiseptics
Watch Video Solution
<b>77.</b> What are anionic detergents? Give an example.
Watch Video Solution
78. During the extraction of aluminium by Hall-Heroult process at which
electrode oxygen gas is liberated.
<b>Watch Video Solution</b>

79. During the extraction of aluminium by Hall-Heroult process at which

electrode oxygen gas is liberated.

**Vatch Video Solution** 

**80.** During the extraction of aluminium by Hall-Heroult process at which electrode oxygen gas is liberated.

Watch Video Solution

81. In the manufactore of ammonia by Haber's process, write the flow

chart and chemical equations with optimum conditions.



82. Mention any two reasons for the anomalous behaviour of oxygen.

**83.** Write the balanced chemical equation for the action of concentrated sulphuric acid on copper metal.



**86.** Write the structure of chlorous acid [HOCIO]





**95.** 1.0 g of non - electrolyte solute dissolved in 50 g of benzene lowered the freezing point of benzene by 0.4 K. Find the molar mass of the solute. [Given : Freezing point depression constant of benzene = 5.12 K. kg mol].

Watch Video Solution
----------------------

**96.** How solubility of a gas in liquid varies with (i) Temperature and (ii) pressure?

Watch Video Solution

97. (a) The electrode potential for the Daniell cell given below is 1.1 V.

$$Zn(s)ig|Z_n^{2\,+}(aq)ig|Cu^{2\,+}(aq)ig|Cu(s)$$

Write overall cell reaction and calculate the standard Gibb's energy for

the reaction. [F96487c/mol]

(b) Mention any two factors which affects the conductivity of electrolytic solution .

98. Mention any two factors which affects the conductivity of electrolytic

solution.

**Watch Video Solution** 

99. Derive an integrated rate equation for rate constant of a zero order

reaction.

Watch Video Solution

100. Write the Arrhenius equation and mention what each term stands

for.

#### 101. Write

i) Arrhenius equation.

ii) The formula to calculate half life. Period of zero order reaction.

<b>D</b> Watch Video Solution	
-------------------------------	--

**102.** (a) Give any two differences between lyophilic and lyophobic colloids.

(b) Write the two steps involved in the mechanism of enzyme catalysed reaction.

(c) What is the entropy change  $(\Delta s)$  for adsorption ?

> Watch Video Solution

103. (a) Give any two differences between lyophilic and lyophobic colloids.

(b) Write the two steps involved in the mechanism of enzyme catalysed reaction.

(c) What is the entropy change  $(\Delta s)$  for adsorption ?

**104.** (a) Give any two differences between lyophilic and lyophobic colloids.

(b) Write the two steps involved in the mechanism of enzyme catalysed reaction.

(c) What is the entropy change  $(\Delta s)$  for adsorption ?

Watch Video Solution

**105.** Write  $SN^2$  mechanism of the conversion of methyl chloride to methyl alcohol.

Watch Video Solution

**106.** Aryl halides are less reactive towards nucleophilic substitution reaction. Give four reasons.

<b>107.</b> What	is asymmet	etric carbon	atom.
------------------	------------	--------------	-------



Watch Video Solution

**110.** How benzene is converted into benzaldehyde by Gatterman-Koch reaction.

**111.** Complete and name the following reaction.



Watch Video Solution

**112.** What is the effect of electron withdrawing group on the acidity of carboxylic acid ?

Watch Video Solution

113. How is methylamine prepared by Hoffmann bromamide degradation

reaction ? Give equation.

**Watch Video Solution** 

115. i) Write IUPAC name of  $CH_3CH_2NH_2$ .

ii) Arrange the following amines in the order of their increasing basic strength in aqueous solution.

 $(CH_3)_3N_1, (CH_3)_2NH_1, CH_3NH_2.$ 

Watch Video Solution

**116.** Complete the following equation.

 $C_6H_5NH_2 + NaNO_2 + 2HCL \xrightarrow{273-278K} \longrightarrow$ 

Watch Video Solution

**117.** Write Haworth structure for maltose.





**121.** Explain the preparation of Buna-N with equation.



122. Name the monomer present in the following polymer

i) Poly vinyl chloride. li) Natural rubber.

Watch Video Solution

**123.** Name the monomer present in the following polymer

i) Poly vinyl chloride. Ii) Natural rubber.

Watch Video Solution

124. Give an example for biodegradable polymer.

**Watch Video Solution** 

**125.** What is the value of Van't Hoff's factor (i) for  $K_2SO_4$ ?

**126.** 10 mL of liquid 'A' is mixed with 10 mL of liquid 'B', the volume of the resultant solution is 19.9 ml. What type of deviation expected from Raoult's law ?

Watch Video Solution

**127.** What is a secondary cell? Write the equation for the cathodic reaction of lead storage battery ?

**Watch Video Solution** 

128. Identify the order of the reaction from the rate constant  $K=2.3 imes10^{-6}L~{
m mol}^{-1}s^{-1}$ 

**129.** Give reason: Zeolites are good shape-selective catalyst.

<b>Vatch Video Solution</b>
130. Iron scraps are advisable and advantageous than zinc scraps for
reducing the low grade copper ores. Why?
<b>Watch Video Solution</b>
<b>131.</b> Complete the reaction: $XeF_6 + H_2O  ightarrow .? \dots \dots + 2HF$

Watch Video Solution

132. Give reason. In case of optically active alkyl halides, SN1 reactions are

accompanied by racemisation

133. Identify "A" in the reaction

$$H_1C$$
  $\rightarrow = 0 \xrightarrow{Zn - Hg} A + H_2O$   
 $H_1C$   $\rightarrow A + H_2O$ 

Watch Video Solution

134. Give an example for water soluble vitamin.



**135.** A solution of  $Ni(NO_3)_2$  is electrolysed between platinum electrodes using a current of 5 amperes for 20 minutes. What mass of nickel is deposited at the cathode?[molar mass of Ni = 58.7gma mol<sup>-1</sup>]
**136.** Mention any two factors which influence the rate of the reaction.

**Watch Video Solution** 

137. Give two reasons the chemistry of actinoids is more complicated than

Lanthnoids.

Watch Video Solution

**138.** How is phenol prepared from Aniline? Write the equation.

Watch Video Solution

**139.** Explain cannizzaro's reaction taking benzaldehyde as an example.

**140.** Give an example for non narcotic analgesics.



**141.** (a) Give an example for non-narcotic analgesic.

(b) Why the use of Aspartame is limited to cold foods and soft drinks ?

Watch Video Solution

142. (a) Why detergents with straight chain of hydrocarbons are prefered

over branched chain hydrocarbons?

(b) Give one example for detergent with straight chain hydrocarbon.



143. (a) Why detergents with straight chain of hydrocarbons are prefered

over branched chain hydrocarbons?





(ii) Formation of Oleum from  $SO_3$ .



147. In the manufacturing of sulphuric acid write

the formation of Oleum from  $SO_3$ .



**148.** (a) Complete the following reaction :

- (i)  $NH_3 + 3Cl_2 
  ightarrow \ldots ? \ldots + 3HCl$
- (ii)  $Cl_2 + F_2 \stackrel{473K}{\longrightarrow} \ldots \stackrel{?}{\ldots}$

(b) Write the structure of perchloric acid  $(HClO_4)$ .

Watch Video Solution

149. Complete the following equations:

 $Cl_2 + 3F_2 \stackrel{573K}{\longrightarrow} \dots \dots$ 

150. Write the struct	ure of perchloric a	acid $(HClO_4)$
-----------------------	---------------------	-----------------

Watch Video Solution
 151. Transition elements show catalytic property. Give two reasons.
 Watch Video Solution

**152.** Name one 3d series element that do not show variable oxidation state.

Watch Video Solution

**153.** Explain the manufacture of Potassium dichromate from chromite ore.

**154.** Using valence bond theory explain geometry, hybridisation and magnetic property of  $[CoF_6]_3^-$  (Atomic number of Co = 27).

C	Watch Video Solution	
---	----------------------	--

**155.** Write any two postulates of Werner's theory of co-ordination compounds.

Watch Video Solution

**156.** Indicate the type of Isomerism in the following set of complex compounds.

 $\left[Co(NH_3)_5SCN\right]Cl_2$  and  $\left[Co(NH_3)5NCS\right]Cl_2$ 

Watch Video Solution

**157.** Calculate packing efficiency in BCC lattice.



**158.** Calcium metal crystallises in a face centered cubic lattice with edge length of 0.556nm. Calculate the density of the metal. [Atomic mass of calcium 40 g/mol]

 $ig[N_A=6.022 imes 10^{23} \hspace{1mm} \mathrm{atoms/\,mol}ig]$ 

Watch Video Solution

**159.** Vapour pressure of benzene is 200 mm of Hg. When 2 gram of a nonvolatile solute dissolved in 78 gram benzene, benzene has vapour pressure of 195 mm of Hg. Calculate the molar mass of the solute. [Molar mass of benzene is 78 g/mol<sup>-1</sup>]

## Watch Video Solution

160. What are azeotropes? Give an example for binary solutions showing

minimum boiling azeotrope.

**161.** Calculate the e.m.f. of the cell in which the following reaction takes place.

$$Ni_{\,(\,s\,)}\,+2Ag^{\,+}_{\,(\,0.002M\,)}\,
ightarrow Ni^{2\,+}_{\,(\,0.160M\,)}\,+2Ag_{\,(\,s\,)}\,, {
m Given}\;\;E^{\,\circ}_{
m cell}=1.05V$$

Watch Video Solution

**162.** State Kohlrausch law of independent migration of ions.

Watch Video Solution

163. What is limiting molar conductivity?

Watch Video Solution

**164.** Derive an intergrated rate for the first order reaction.



**168.** Give an example for heterogeneous catalysis.

169. Write steps involved in  $S_N 1$  mechanism to the conversion of tertiary

butyl bromide into tertiary butyl alcohol and mention its order.



**172.** Complete the following reactions:

 $CH_3CH_2Br \xrightarrow{AgCN}_{
m Aq. \ Ethanol}$ 

C Watch Video Solution

**173.** Write the mechanism of acid catalysed dehydration of ethanol to ethene.

Watch Video Solution

174. How does anisole react with methyl chloride?



**175.** How is benzoyl chloride converted into benzaldehyde. Write the equation and name the reaction.



**176.** Write a general equation for the formation of carboxylic acid from Grignard reagent.

Watch Video Solution

## 177. Complete the reaction







**180.** Give the equation for the conversion of aniline to 4-Bromo aniline.

Watch Video Solution

181. Write a chemical reactions to elucidate

Glucose contains five - OH groups.

182. Write a chemical reactions to elucidate

Glucose contains six carbon atoms in a straight chain.

Watch Video Solution
<b>183.</b> Explain denaturation of proteins with example.
Watch Video Solution
<b>184.</b> Name the sugar moiety present in DNA.
Watch Video Solution
<b>185.</b> Name the monomers present in the following polymers.
PVC
Watch Video Solution

**186.** Name the monomers present in the following polymers.

Neoprene



## 2. Define ppm.

3. Which of the following has a higher value for molar conductivity under

similar conditions?  $0.1 {\rm M~KCl}~{\rm or}~0.01 {\rm ~M~KCl}.$ 

Watch Video Solution

Watch Video Solution

**4.** For the reaction  $A + B \rightarrow P$ , the rate is given by Rate  $= K[A]^1[B]^2$ . By how many times does the rate of reaction increase when concentrations of A & B are doubled?



**5.** Name the biocatalyst involved in the conversion of glucose into ethanol and carbon dioxide.





**6.** Write the formula of the volatile compound formed during the purification of nickel by Mond's process.

Watch Video Solution

7. What is the geometry of oxide of xenon formed when  $XeF_6$  is hydrolysed?

Watch Video Solution

**8.** Between chlorobenzene and chloroethane, which is more reactive towards nucleophilic substitution reaction?

<b>9.</b> Pentan-3- one does not undergo	iodoform re	eaction. (	Give reason.
--	-------------	------------	--------------

<b>Watch Video Solution</b>
<b>10.</b> Name the nitrogenous base present in DNA but not in RNA.
S Watch Video Solution
11. What type of vacancy defect is shown by a crystal of sodium chloride?
<b>12.</b> Which of the following is an example of a molecular solid? Diamond, ZnS, Solid Iodine, gold
<b>Vatch Video Solution</b>

13. i) According to the equation  $Cu^{2+} + 2e^- o Cu$ , how many moles of copper are deposited when 965C of electricity is passed through a solution of  $Cu^{2+}$  ions?

(1F = 96500C).

Watch Video Solution

14. Mention any one application of Kohlrausch law.

Watch Video Solution

15. Derive the relation between half life and initial concentration of a zero

order reaction, R 
ightarrow P.



16. What is the common oxidation state shown by Lanthanoids? Mention

any one consequence of Lanthanoid contraction.



**18.** Explain the Wolff-Kischner reduction of acetone and write the equation for the same.



**19.** Give an example of a narcotic analgesic.

20. Based on theraupatic action, to which class of drug does ranitidine
belong to?
Watch Video Solution
<b>21.</b> What is the role of aspartame in the food industry?
<b>Vatch Video Solution</b>
<b>22.</b> What is saponification?
<b>Watch Video Solution</b>
23. Write the equations for the reactions involved in the leaching of

alumina from bauxite ore.



24. In the manufacture of ammonia by Haber's process:

i) Mention the optimum temperature and optimum pressure employed.

ii) What is the role played by potassium oxide  $(K_2 O)$ ?

**O** Watch Video Solution

**25.** In the manufacture of ammonia by Haber's process:

i) Mention the optimum temperature and optimum pressure employed.

ii) What is the role played by potassium oxide  $(K_2 O)$ ?

Watch Video Solution

26. a) Complete the following equations:

- i)  $PbS_{(s)} + 4O_{3(g)} 
  ightarrow$
- ii)  $2NaOH+SO_2 
  ightarrow$



**27.** Complete the following equations:

 $2NaOH+SO_2 
ightarrow$ 



**28.** Write the structure of oleum  $(H_2S_2O_7)$ 



**29.** a) Give reason:

i) Fluorine exhibits only one oxidation state whereas other halogens

exhibit multiple oxidation states.

ii) Most of the reactions with fluorine are exothermic.



**30.** a) Give reason:

i) Fluorine exhibits only one oxidation state whereas other halogens exhibit multiple oxidation states.

ii) Most of the reactions with fluorine are exothermic.



**31.** b) Write the missing product:

 $NH_3 + 3Cl_{2( ext{excess})} \rightarrow \ ? + 3HCl.$ 



32. Explain the preparation of potassium permanganate from  $MnO_2$ 

Write the balanced chemical equations for the reactions involved.

33. Give reasons:

i) Generally there is increase in density along 3d series of transition

metals.

Watch	Video	Solution
watch	video	Jointion

34. Give reasons:

Third ionisation enthalpy of manganese is unusually high.

Watch Video Solution

35. Which of the following ions is coloured in aqueous solution?

i)  $Sc^{3+}$  ii) $Co^{2+}$  iii)  $Cu^+$ 



36. Which of the following ions is coloured in aqueous solution?

i) 
$$Sc^{3+}$$
 ii) $Co^{2+}$  iii)  $Cu^+$ 

Watch Video Solution

37. Which of the following ions is coloured in aqueous solution?

i)  $Sc^{3+}$  ii) $Co^{2+}$  iii)  $Cu^+$ 

Watch Video Solution

**38.** Using valence bond theory account for the geometry and magnetic nature of  $[NiCl_4]^{2-}$  ion. (Atomic number of Ni = 28).



**39.** a) In the complex compound represented by  $CoCl_3.4NH_3$ , how many ammonia molecules satisfy the secondary valence of cobalt if one mole of



**43.** b) An element crystallizes in a foc lattice. The edge length of the unit cell is 400 pm. Calculate the density of the unit cell.  $(\text{molar mass} = 60 \text{ g mol}^{-1})$  $(\text{Avogadro number} = 6.02 \times 10^{23})$ 

Watch Video Solution

**44.** a) 24 g of a non-volatile, non-electrolyte solute is added to 600 g of water. The boiling point of the resulting solution is 373.35K. Calculate the molar mass of the solute (Given boiling point of pure water = 373 K and Kb for water=0.52 K kg me

## Watch Video Solution

**45.** b) i) A non ideal solution has  $\Delta H_{
m mixing} > 0$ . What type of deviation does it show from Raoult's law?

ii) What is an azeotrope?



48. What is the composition of the cathode in the lead storage battery?

49. Name the product discharged at the anode during the electrolysis of

an aqueous solution of sodium chloride.



**50.** Derive an integrated rate equation for the rate constant of a first-order reaction.

Watch Video Solution

51. b) In the equation, rate  $=Z_{AB} imes e^{rac{E_a}{R}}$ , what does the term  $e^{rac{E_a}{RT}}$ 

represent?



**52.** What is the effect of a catalyst on  $\Delta G$  of a reaction?

**53.** i) What type of adsorption involves Van der Waals force of attraction?

ii) Give an example for homogeneous catalysis.

<b>Watch Video Solution</b>
<b>54.</b> Give an example for homogenous catalysis.
Watch Video Solution
<b>55.</b> What is peptization ? Give an example.
Watch Video Solution
<b>56.</b> i) What is peptization?
ii) What is the dispersed phase in a gel?

iii) Which one of the following electrolyte is required in the smallest quantity to precipitate a negative sol?  $MgCl_2$ .  $AICl_3$ , NaCl.

Watch Video Solution

**57.** i) What is peptization?

ii) What is the dispersed phase in a gel?

iii) Which one of the following electrolyte is required in the smallest

quantity to precipitate a negative sol? MgCl<sub>2</sub>. AICl<sub>3</sub>, NaCl.

Watch Video Solution

58. Discuss the mechanism of hydrolysis of tert - butyl bromide.



**59.** Identify the missing reactant/product in each of the following:

i) 2- Bromopentane  $+ alc. \ KOH o A + KBr$  (where A is the

major product)

ii)2' $B'+2Na \xrightarrow{\mathrm{dry \ either}} C_4H_{10}+2NaBr$ 

Watch Video Solution

60. Identify the missing reactant/product in each of the following:

i) 2- Bromopentane  $+ alc. \ KOH \rightarrow A + KBr$  (where A is the

major product)

ii)2' $B' + 2Na \xrightarrow{\text{dry either}} C_4 H_{10} + 2NaBr$ 

Watch Video Solution

**61.** Write the equations involved in the preparation of phenol from cumene.

**62.** i) Give the IUPAC name of the product formed when tertiary butyl alcohol is passed over copper heated to 573 K.

ii) Arrange the following in the increasing order of acidity and justify the same:  $(CH_3)_3COH, CH_3OH, (CH_3)_2CHOH$ 

Watch Video Solution

**63.** i) Give the IUPAC name of the product formed when tertiary butyl alcohol is passed over copper heated to 573 K.

ii) Arrange the following in the increasing order of acidity and justify the

same:  $(CH_3)_3COH, CH_3OH, (CH_3)_2CHOH$ 

Watch Video Solution

**64.** Explain Stephen's reduction with an example.

**65.** Complete the following equations:

i) 2HCHO+ conc. KOH ightarrow

ii)  $CH_{3}CHO + NH_{2}OH 
ightarrow$ 

iii)  $CH_3COOH + PCl_5 \rightarrow$ 

**Watch Video Solution** 

**66.** Complete the following equations:

 $CH_{3}CHO + NH_{2}OH 
ightarrow$ 

Watch Video Solution

67. Complete the following equations:

 $CH_3COOH + PCl_5 \rightarrow$ 

68. Explain Hoffmann bromamide degradation reaction and write the

general equation for the reaction involved.



71. Write the Haworth structure of D - sucrose. Why is a non - reducing

sugar?


72. i) How many peptide bonds are in a hexapeptide?

ii) Write the general structure of the Zwiter ionic form of an lpha- amino

acid.

iii) Deficiency of which vitamin cause pernicious anemia?

Watch Video Solution

73. i) How many peptide bonds are in a hexapeptide?

ii) Write the general structure of the Zwiter ionic form of an lpha- amino

acid.

iii) Deficiency of which vitamin cause pernicious anemia?



**74.** i) How many peptide bonds are in a hexapeptide?

ii) Write the general structure of the Zwiter ionic form of an lpha- amino

acid.
iii) Deficiency of which vitamin cause pernicious anemia?
Watch Video Solution
<b>75.</b> i) Name the polymer whose partial structure is represented by
ii) What are the monomers of Nylon 6, 6 ?
Watch Video Solution

**76.** i) Name the catalyst used in the manufacture of high density polythene.

ii) What is the configuration at the carbon - carbon double bonds in

natural rubber ?



**77.** i) Name the catalyst used in the manufacture of high density polythene.

ii) What is the configuration at the carbon - carbon double bonds in natural rubber ?

Watch Video Solution