

India's Number 1 Education App

### **CHEMISTRY**

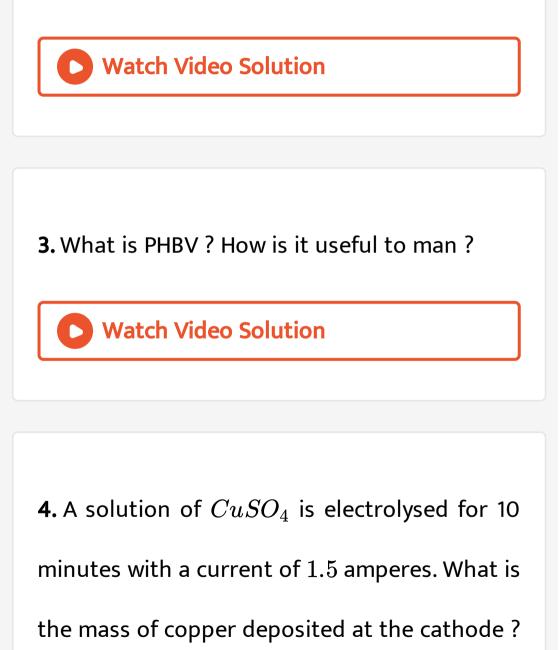
# **BOOKS - VGS PUBLICATION-BRILLIANT**

## **MODEL PAPER**



1. Define osmotic pressure.

**2.** What are antibiotics. Give examples.



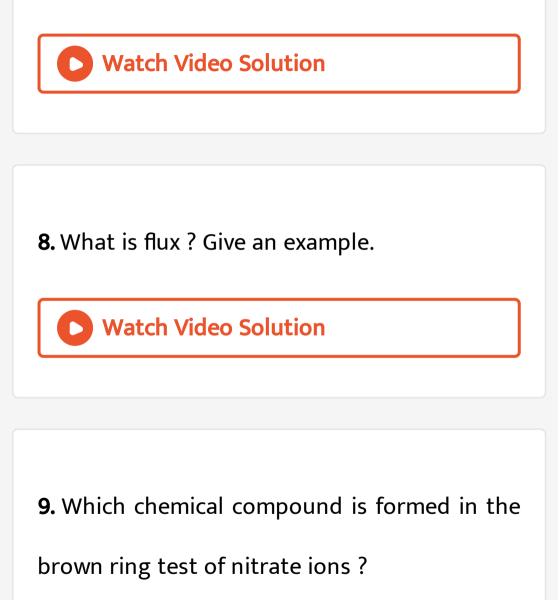


**5.** What are food preservatives ? Give examples.

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### 6. What is Ziegler-Natta catalyst?

7. Why does  $NH_3$  act as a Lewis base ?



**10.** What is an alloy ? Give example.



11. Define osmotic pressure.

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12. What are antibiotics? Give example.

13. What is the difference between a soap and

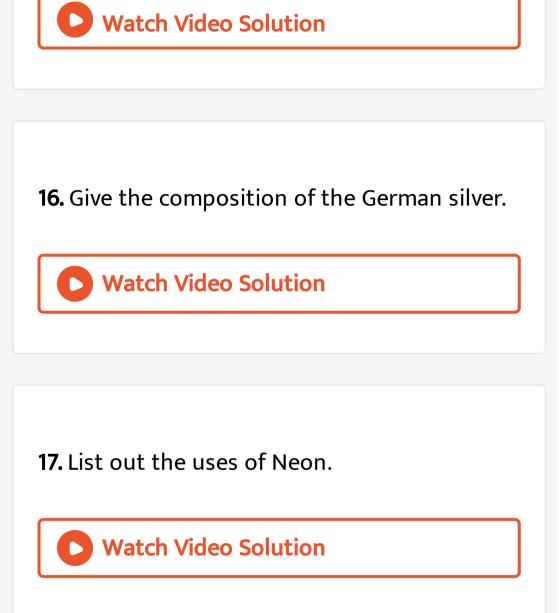
a syntheic detergent?



#### 14. State Faraday's first law of electrolysis.



15. Give the composition of the Brass.



18. Explain the structures of

 $XeF_4$ 

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19. Why  $Zn^{2+}$  is diamagnetic whereas  $Mn^{2+}$ 

is paramagnetic ?

20. What is biodegradable polymer ? Give one

example of a biodegradable polyesster ?

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**21.** Write the name and structure of the monomers used for getting the following polymer

Bakelite

22. What are the constituent monomers in the

following polymers? Write their uses.

(a) Nylon 6,6 and (b) Terylene.



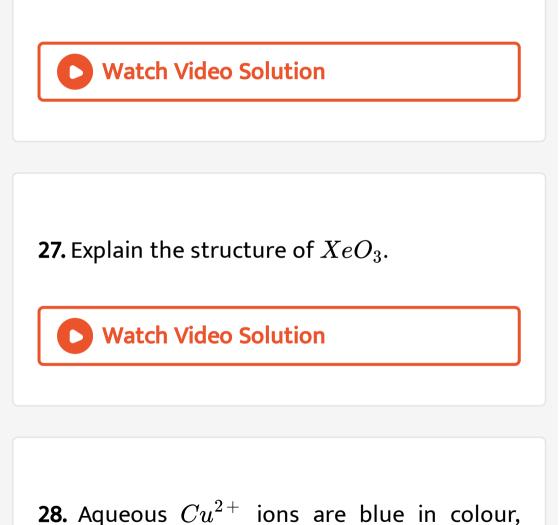
23. State Henry's law.

24. What are pseudo first order reactions ?
Give one example.
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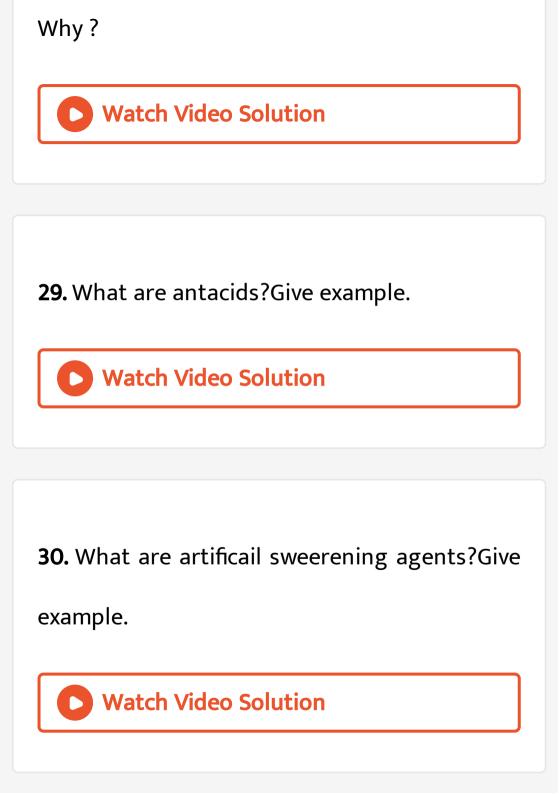
**25.** What is the role of cryolite in the metallurgy of aluminium?

26. A mixture of  $Ca_3P_2$  and  $CaC_2$  is used in

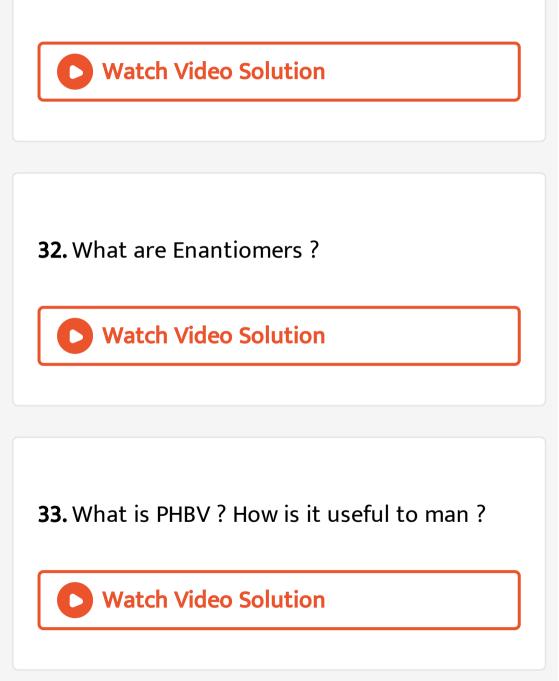
making Holme's signal - Explain.



where as Aqueous  $Zn^{2+}$  ions are colourless.



31. What are ambident nucleophiles ?



**34.** Write the name and structure of the monomers used for getting the following polymer Bakelite

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35. Write the names of monomers of the

following polymers:

Terylene







37. State Faraday's first law of electrolysis.

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38. What is poling?

**39.** A mixture of  $Ca_3P_2$  and  $CaC_2$  is used in making Holme's signal - Explain.

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40. In modern diving apparatus, a mixture of

He and  $O_2$  is used - Why?

**41.** Calculate the magnetic moment of a divalent ion in aqueous solution if its atomic number is 25

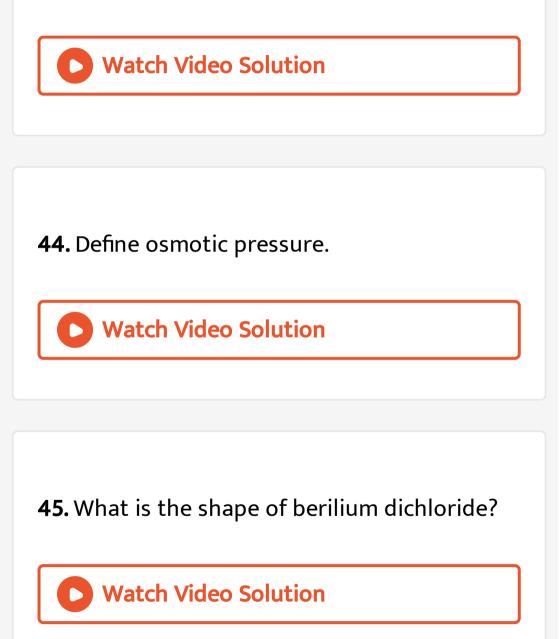


### 42. What are artificail sweerening agents? Give

example.



**43.** What are antibiotics? Give example.



46. What is horn silver? which metal is present

in this?



# **47.** Draw the structure of the following compounds:

 $BF_3$ 

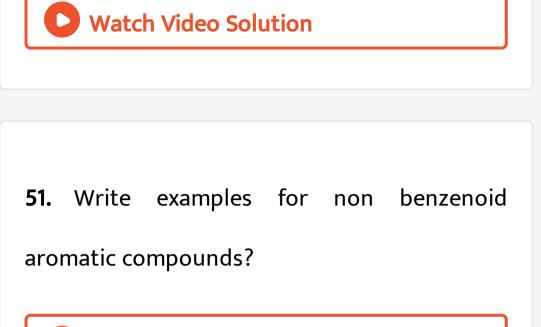
**48.** Draw the structure of the following compounds:  $PCl_5$ 



### **49.** How is bleaching powder prepared ?



50. What is the formula of geleena?



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**52.** Write the structures of the following compounds :

2 - Chloro-3-methyl pentane

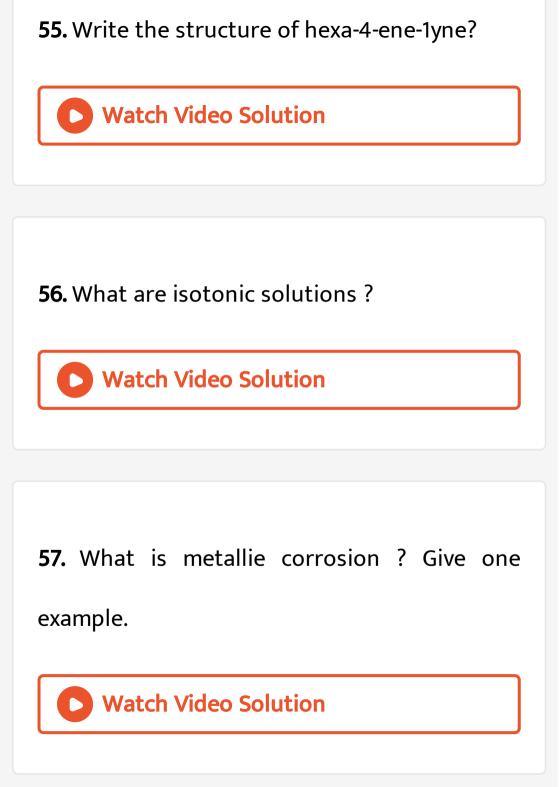
**53.** Write the structures of the following compounds :

1,4 - Dibromobut-2-ene

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54. Write the structure of 3-ethyl-4-methyl

hexane?



58. Explain "Poling".



59. What happens when white phosphorus is

heated with conc. NaOH solution in an inert

atmosphere of  $CO_2$  ?



**60.**  $K_4[Fe(CN)_6]$  is a



# **61.** Using IUPAC norms, write the systematic names of the $[Co(NH_3)_6]Cl_3$

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**62.** What are antiseptics ? Give examples.



63. What are artificail sweerening agents? Give

example.



**64.** What is tailing of mercury? How is it removed ?



65. Explain Wurtz - Fitting reaction



**66.** Write the structures of the following compounds :

2 - Chloro-3-methyl pentane

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**67.** Write the structures of the following organic halides .

p-bromochlorobenzene,





### Section B

1. Derive Bragg's equation .

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### 2. What is catalysis ? How is catalysis classified

? Give two examples for each type of catalysis.

**3.** Explain the following given examples.

Colloid

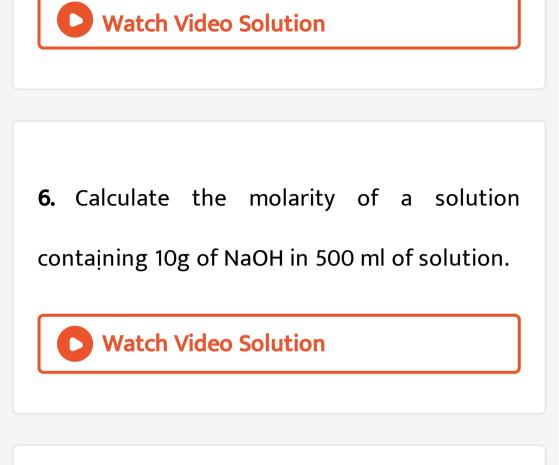
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4. What is the definition of acid according to

**Bronsted?** 



5. Define mole fraction.



### 7. How are $XeF_2$ and $XeF_4$ prepared ? Give

their structures.

8. Explain Werner's theory. Give the Werner's

structures

of

 $CoCl_3.\ 6NH_3,\ CoCl_3.\ 5NH_3,\ CoCl_3.\ 4NH_3$ 

and  $CoCl_3$ .  $3NH_3$ .

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9. Give one example for corm.

10. What are Hormones ? Give one example for

steroid hormones and polypeptide hormones.

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**11.** What are Hormones ? Give one example for each.

- i) Steroid Hormones
- ii) Polypeptide Hormones
- iii) Amino Acid derivatives.

### **12.** Explain Wurtz - Fitting reaction



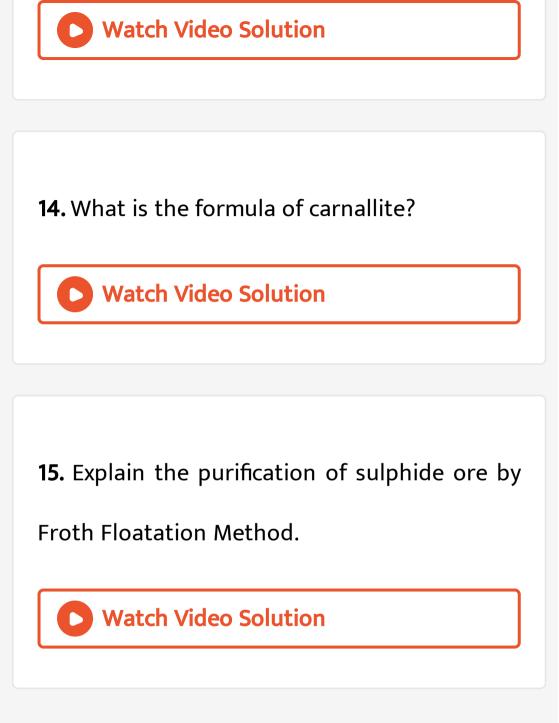
**13.** Write equations of the following reactions:

(i) Friedel-Crafts reaction – alkylation of anisole.

(ii) Nitration of anisole.

(iii) Bromination of anisole in ethanoic acid medium.

(iv) Friedel-Craft's acetylation of anisole.



16. The vapour pressure of pure benzene at a certain temperature is 0.850 bar. A non-volatile, non-electrolyte solid weighing 0.5g when added to 39.0 g of benzene (molar mass 78 g mol<sup>-1</sup>), vapour pressure of the solution, then, is 0.845 bar. What is the molar mass of the solid substance ?

**17.** Describe the purification of colloidal solution by the phenomenon of dialysis with a neat diagram.



18. Write equations for the reaction of acetic

acid with reagent :

NaOH

19. How is chlorine obtained in the laboratory

? How does it react with the following ?

excess  $NH_3$ 

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**20.** Write the equations for.reactions of chlorine with the following :

 $Ca(OH)_2$ 

21. How is chlorine prepared in the laboratory

? How does it react with the following ?

 $Na_2S_2O_3$ 

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**22.** Explain the applications of Co-ordination compounds in different fields.

23. What are Hormones ? Give one example for

each.

- i) Steroid Hormones
- ii) Polypeptide Hormones
- iii) Amino Acid derivatives.



24. What are Hormones ? Give one example for

steroid hormones and polypeptide hormones.

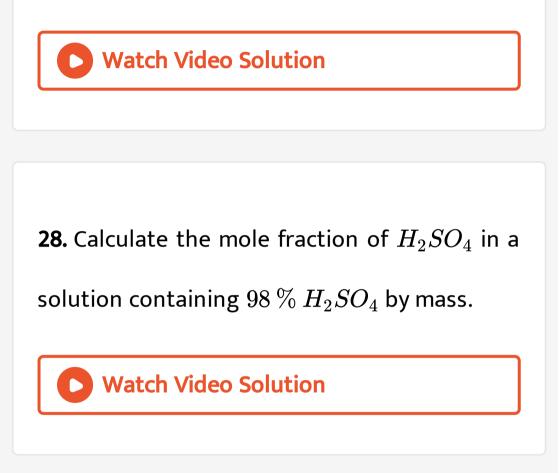
**25.** What are Hormones ? Give one example for each.

- i) Steroid Hormones
- ii) Polypeptide Hormones
- iii) Amino Acid derivatives.

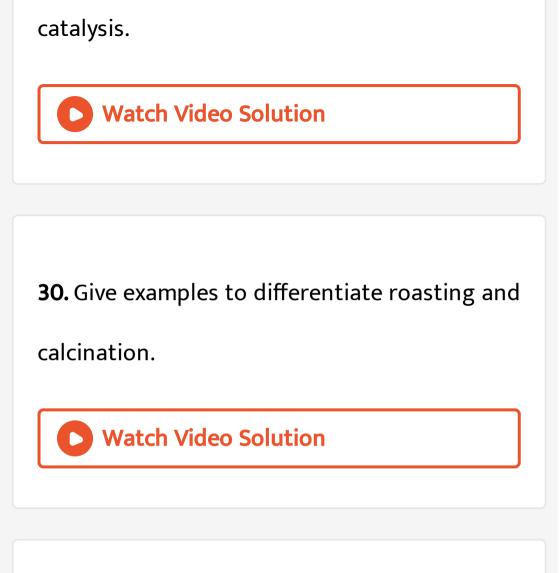
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**26.** Explain  $sp^2$  hybridization with an example.

**27.** Derive Bragg's equation .



**29.** What is catalysis ? How is catalysis classified ? Give two examples for each type of



**31.** Explain ionic bond with suitable example.

32. Write the names and structures of the

monomers of the following polymers.

i)Buna -S ii)Buna -N iii) Dacron iv)Neoprene



### 33. What are Hormones ? Give one example for

each.

- i) Steroid Hormones
- ii) Polypeptide Hormones
- iii) Amino Acid derivatives.





34. What are Hormones ? Give one example for

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35. What are Hormones ? Give one example for

each.

- i) Steroid Hormones
- ii) Polypeptide Hormones
- iii) Amino Acid derivatives.

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**36.** How do you prepare Ethyl cyanide and Ethyl isocyanide from a common alkylhalide ?

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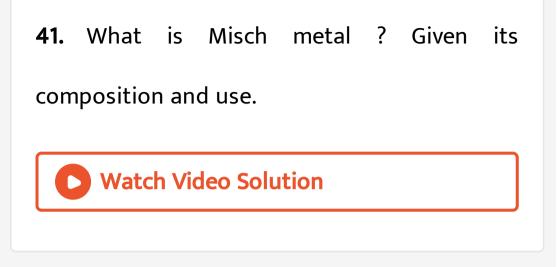
**37.** Derive Bragg's equation .

**38.** The vapour pressure of pure benzene at a certain temperature is 0.850 bar. A non-volatile, non-electrolyte solid weighing 0.5g when added to 39.0 g of benzene (molar mass 78 g mol<sup>-1</sup>), vapour pressure of the solution, then, is 0.845 bar. What is the molar mass of the solid substance ?

**39.** What is catalysis ? How is catalysis classified ? Give two examples for each type of catalysis.

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**40.** Give examples to differentiate roasting and calcination.



**42.** What is an ambidentatc ligand ? Give example.



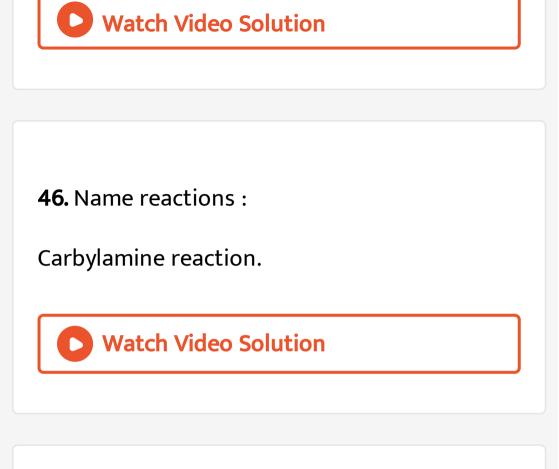
**43.** Give the sources of the following vitamin and name the diseases caused by their deficiency (a) A (b) D (c) E and (d) K



### **44.** What are Enantiomers ?



### 45. What is racemisation ?



**47.** Explain the following name reactions :

Sandmeyer reaction

**48.** Define molarity Calculate the molarity of a solution containing 5g of NaOH in 450 ml of solution.



## **49.** Which metal is present in cinnabar ore?

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**50.** Which metal is present in Pyrolusite ore?



**51.** Define Adsorption. ,Discuss the differences between physical adsorption and chemical adsorption.

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## 52. Explain the purification of sulphide ore by

Froth Floatation Method.

**53.** What is Stereoisomerism ? Explain the geometrical' isomerism in coordinationi compounds with suitable example.



# **54.** Write the formula and structure of Hyposulphurous acid?

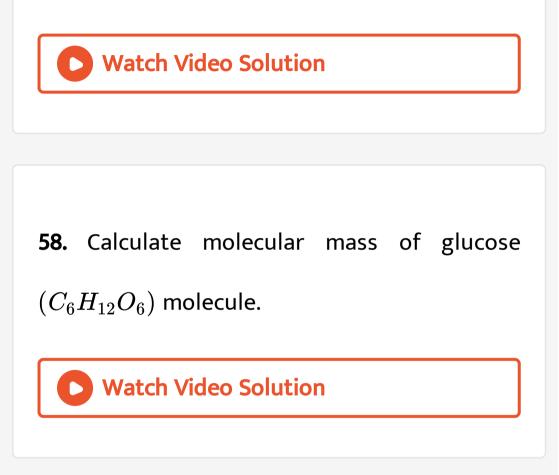


**55.** Give the sources of the following vitamin and name the diseases caused by their deficiency (a) A (b) D ( c) E and (d) K



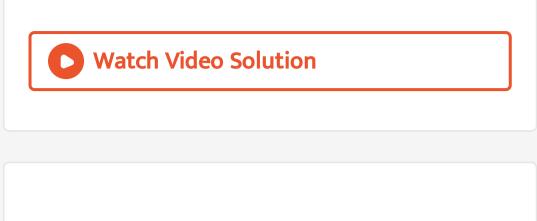
**56.** What are analgesics ? How are they classified ?

**57.** Derive Bragg's equation .



**59.** A solution of  $CuSO_4$  is electrolysed for 10 minutes with a current of 1.5 amperes. What is

the mass of copper deposited at the cathode ?



60. Explain the purification of sulphide ore by

Froth Floatation Method.

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61. Write the characteristic properties of

transition elements.



### 62. IUPAC names of monomers in Nylon-6,6 are

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**63.** Write the name and structure of the monomers used for getting the following polymer

Polystyrene

**64.** Write the name and structure of the monomers used for getting the following polymer

Bakelite

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**65.** write the name and structures of the monomers used for getting the following polymers

i)Polyvinyl ii)Teflon iii)Bakelite iv) Polystyrene.

**66.** Explain the following name reactions :

Sandmeyer reaction

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67. Explain the following name reactions :

Gatterman reaction

**68.** Give the sources of the following vitamin and name the diseases caused by their deficiency (a) A (b) D ( c) E and (d) K





1. What is Ebullioscopic constant?

2. What is a galvanic cell or a valtaic cell ? Give

one example.



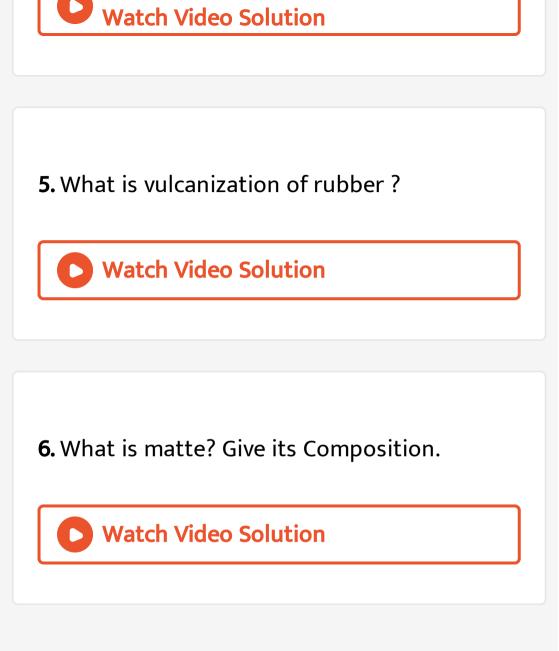
**3.** Why  $Zn^{2+}$  is diamagnetic whereas  $Mn^{2+}$  is

paramagnetic?

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**4.** What is PHBV ? How is it useful to man ?





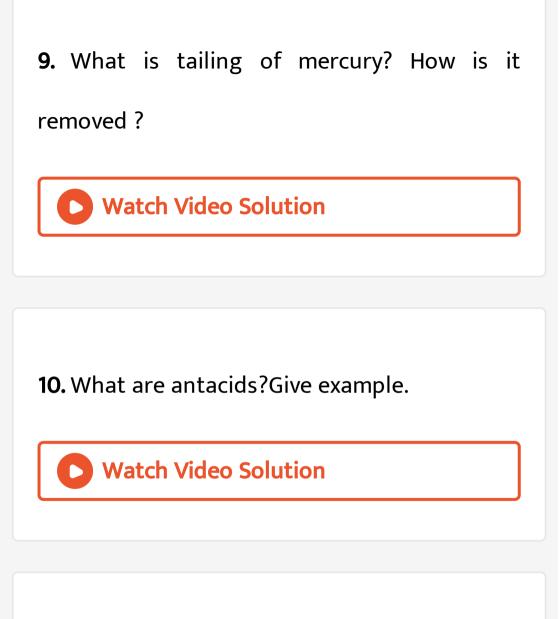
7. Give an example of

acidic oxide of phosphorus

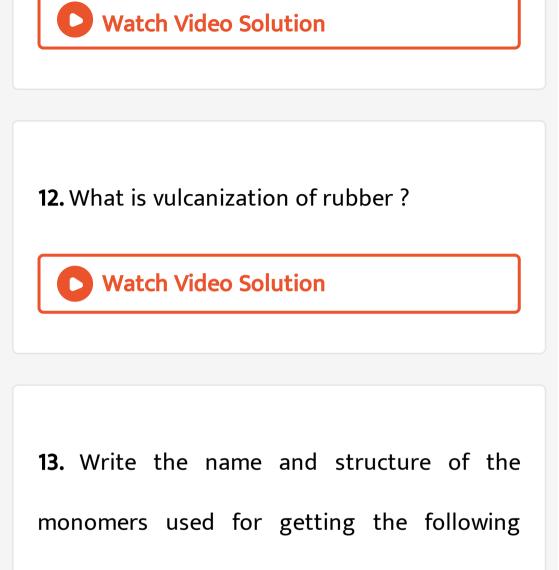
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8. Give an example of

neutral oxide of nitrogen.



**11.** What are artificail sweerening agents?Give example.



polymer

Bakelite

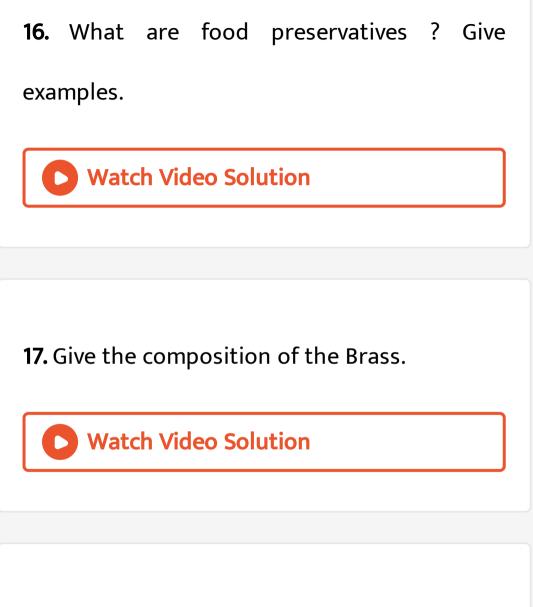


**14.** Write the names and structures of the monomers of the following polymers.

i)Buna -S ii)Buna -N iii) Dacron iv)Neoprene



### **15.** What are disinfectants? Give example.



18. Give the composition of the German silver.

**19.** What is a primary battery ? Give one example.



### 20. How is chlorine manufactured by Deacon's

method ?

**21.** What happens when  $Cl_2$  reacts with dry

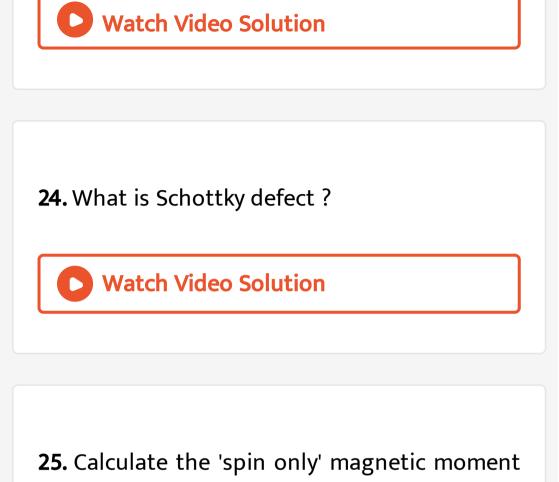
slaked lime ?

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**22.** Calculate the 'spin only' magnetic moment of  $Fe_{aq}^{2+}$  ion.



23. What are isotonic solutions ?



of  $Fe_{aq}^{2+}$  ion.

**26.** Aqueous NaOH solution is labelled as 10~%

by weight mole fraction of the solute in it is



### 27. How is Gibbs energy (G) related to the cell

emf (E) mathematically ?



28. What is the role of cryolite in the metallurgy of aluminium?
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29. How do you distinguish between crystal

lattice and unit cell ?

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**30.** What is PHBV ? How is it useful to man ?



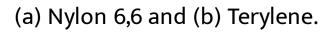
**31.** Write the name and structure of the monomers used for getting the following polymer

Bakelite

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32. What are the constituent monomers in the

following polymers? Write their uses.



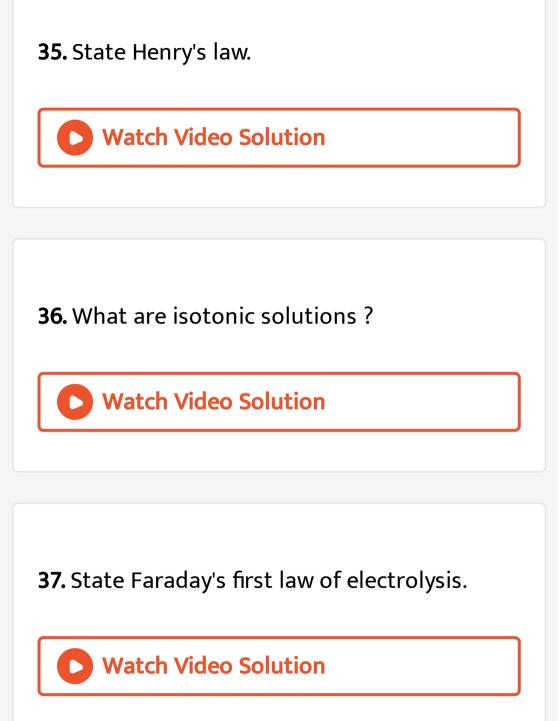


#### 33. Write the isomers of the compound having

molecular formula  $C_4 H_9 Br$  .

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#### 34. Ethane to bromoethene



38. Give two uses of aluminium .



**39.** Explain the reactions of aluminium with

acids.

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**40.** Explain the reactions of  $Cl_2$  with NaOH.

**41.** In modern diving apparatus, a mixture of

He and  $O_2$  is used - Why?



**42.** Helium is heavier than hydrogen. Yet helium is used (instead of  $H_2$ ) in filling baloons for meteorological observations - Why

?

**43.** Why  $Zn^{2+}$  is diamagnetic whereas  $Mn^{2+}$ 

is paramagnetic ?

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#### 44. Write the isomers of the compound having

molecular formula  $C_4H_9Br$  .

**45.** Explain why the dipole moment of chlorobenzene is lower than that of cyclohexychloride .



#### 46. How do you convert aniline to parabromo

aniline.

**47.** Write the chemical reaction of aniline with benzoyl chloride and write the name of the product obtained.

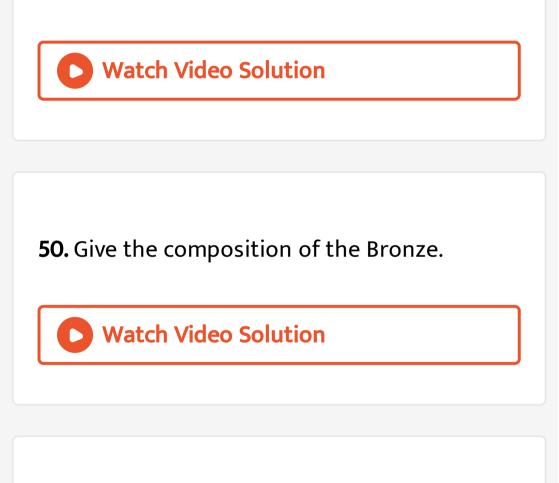


#### 48. What is an ideal solution ?



49. Write the Arrhenius equation for the rate

constant (k) of a reaction.



**51.** Give the composition of the Bronze.

52. How is  $XeOF_4$  prepared ? Describe its molecular shape.



#### **53.** Write the reactions of $F_2$ and $Cl_2$ with

water.



54. Scandium is a transition element. But Zinc

is not. Why?



**55.** What is PDI (Poly Dispersity Index )?

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56. What is allosteric site?

**57.** What are antacids? Give example.

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**58.** Write the name and structure of the monomers used for getting the following polymer

Polyvinyl chloride

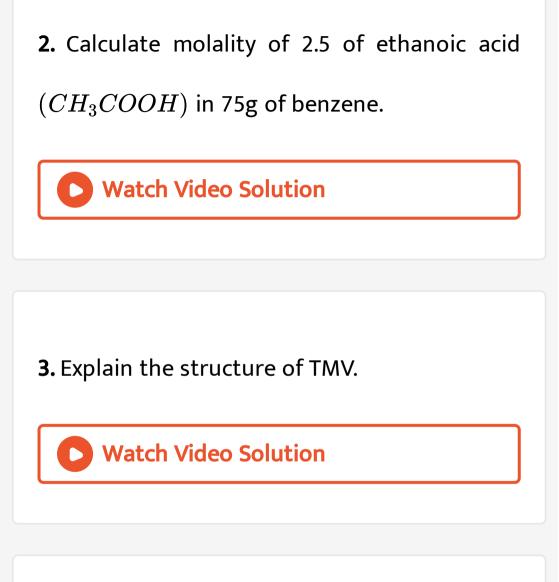
**59.** Write the name and structure of the monomers used for getting the following polymer

Teflon

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1. What are n-type and p-type semiconductors?



4. Explain Werner's theory. Give the Werner's

structures

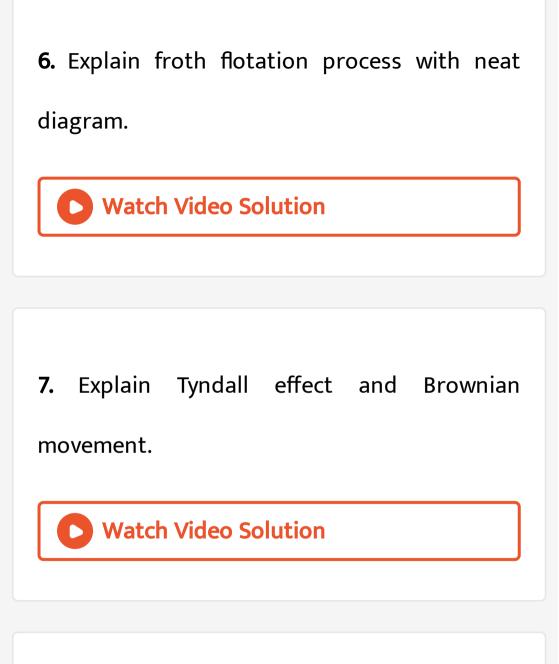
 $CoCl_3.\ 6NH_3,\ CoCl_3.\ 5NH_3,\ CoCl_3.\ 4NH_3$ 

and  $CoCl_3$ .  $3NH_3$ .

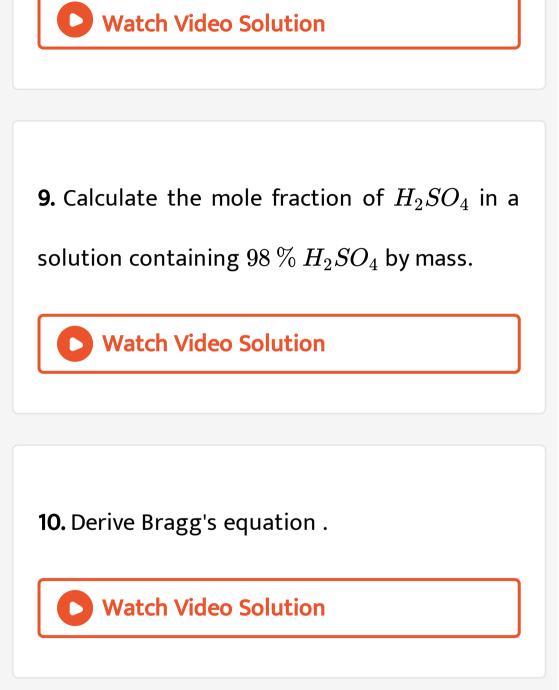


5. Give the sources of the following vitamin and name the diseases caused by their deficiency (a) A (b) D ( c) E and (d) K





**8.** Explain  $sp^2$  hybridization with an example.



11. What are emulsion ? How are they classified

? Describe the applications of emulsions.

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12. Explain the purification of sulphide ore by

Froth Floatation Method.

**13.** Give the sources of the following vitamin and name the diseases caused by their deficiency (a) A (b) D ( c) E and (d) K



#### 14. Explain ionic bond with suitable example.



**15.** How are  $XeF_2$  and  $XeF_4$  prepared ? Give

their structures.

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**16.** Explain the following name reactions :

Sandmeyer reaction



**17.** Explain the following name reactions :

Gatterman reaction

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**18.** Calculate the vapour pressure of a solution containing 9g of glucose in 162g of water at 293K. The vapour pressure of water of 293K is 17.535mm Hg.

19. What are the types of systems? Explain give

one example each?



20. Give examples to differentiate roasting and

calcination.

21. Explain the structures of

 $XeF_4$ 

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#### 22. Explain the structures of

 $XeOF_4$ 

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**23.** Explain ionic bond with suitable example.

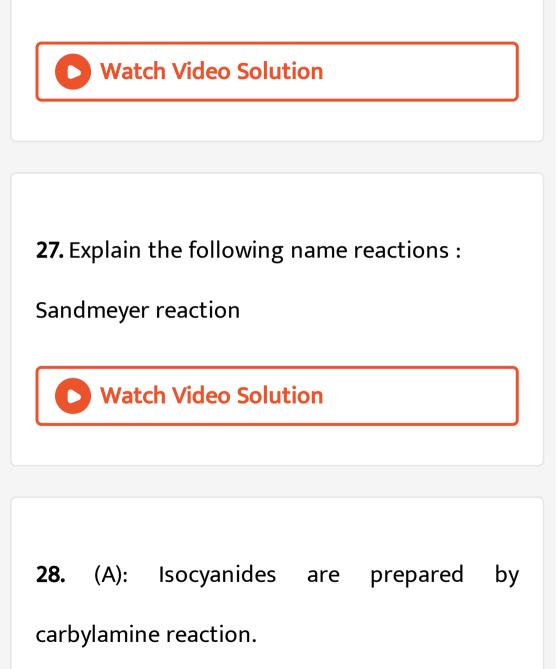


# **24.** Give the sources of the following vitamin and name the diseases caused by their deficiency (a) A (b) D ( c) E and (d) K

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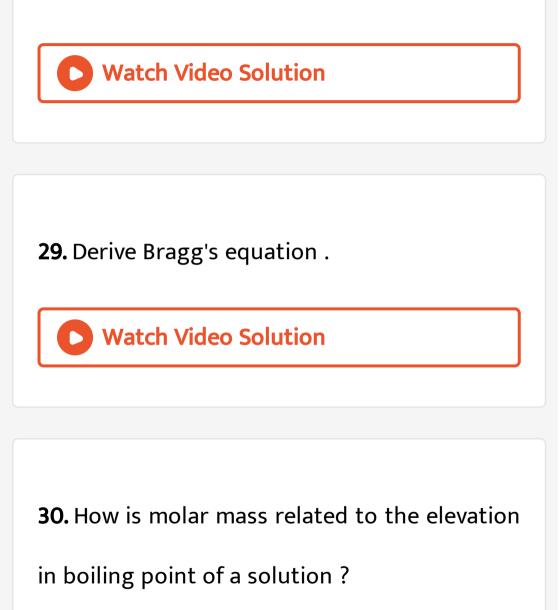
25. Write short notes on Analgesics

**26.** Write the defination of binary solution?



(R) : Carbylamine on reduction always gives  $2^0$ 

#### amines.





**31.** Calculate the mole fraction of  $H_2SO_4$  in a

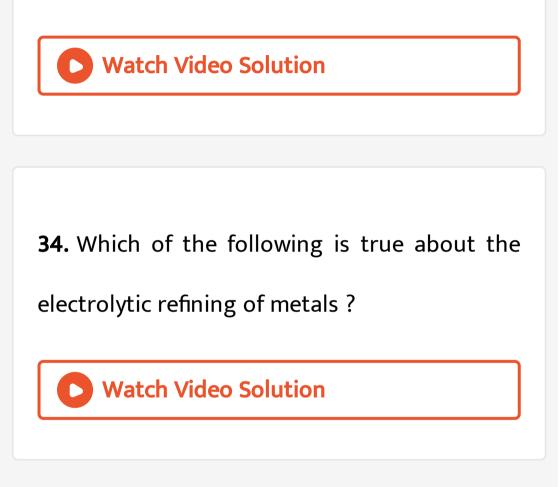
solution containing  $98~\%~H_2SO_4$  by mass.



### **32.** Write any four differences between

physical adsorption and chemical adsorption.

33. Zone refining is based on



**35.** What is Lanthanoid contraction ?

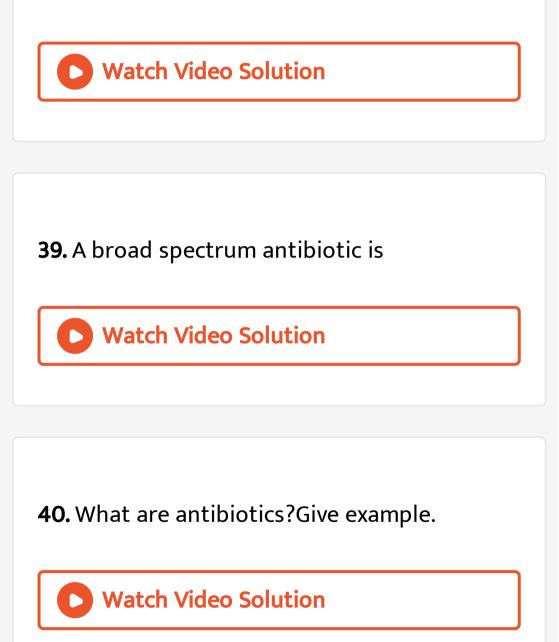
**36.** Explain the purpose if vulcanization of rubber .



## **37.** Explain the difference between natural rubber and synthetic rubber .



**38.** Write notes on vitamins.

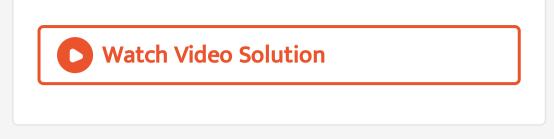


**1.** Give a detailed account of the Collision theory of reaction rates of biomolecular reaction.

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#### **2.** Explain the reactions of $Cl_2$ with NaOH.





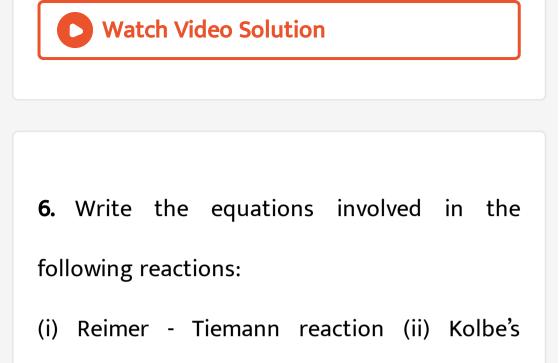
**4.** How is chlorine obtained in the laboratory ? How does it react with the following ?

excess  $NH_3$ 

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5. Name Reactions :

Kolbe's reaction



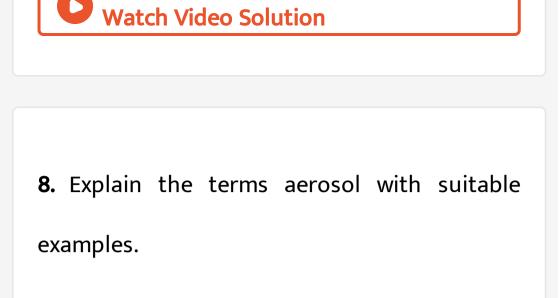
reaction

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7. With a suitable example write equations for

the Williamson's ether synthesis





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9. How is nitric acid manufactured by

Ostwald's process ?

10. How is ozone prepared from oxygen ?

Explain its reaction

i)  $C_2H_4$  ii) KI ii) Hg iv) PbS

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**11.** Give a detailed account of the Collision theory of reaction rates of biomolecular reaction.

12. Explain the acidic nature of phenols and

compare with that of alcohols.

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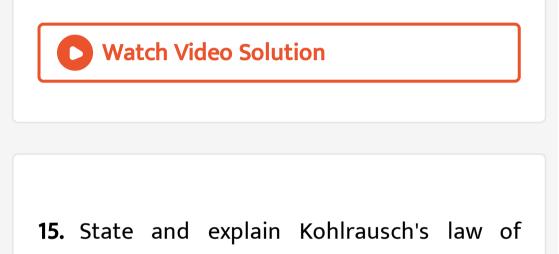
13. With a suitable example write equations for

the Kolbe's reaction.



14. With a suitable example write equations

for the Reimer-Tiemann reaction.



indendent migration of ions.



**16.** What is Zero Order reaction ?



# 17. How is ozone prepared ? How does it react

with the following ?

ΚI

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**18.** Write balanced equations for the

folliowing.

NaCl is heated with  $\mathrm{Conc.H}_2SO_4$  in the

presence of  $MnO_2$ .



**19.** Write balanced equations for the folliowing.

Chlorine is passed into a solution of Nal in

water.

20. Describe the Cannizaro reaction



- **21.** Describe the following:
- (i) Acetylation
- (ii) Cannizzaro reaction
- (iii) Cross aldol condensation
- (iv) Decarboxylation

22. Explain the acidic nature of phenols and

compare with that of alcohols.



**23.** Give a detailed account of the Collision theory of reaction rates of biomolecular reaction.

**24.** What is Half life of a reaction ?



### 25. How is chlorine prepared by electrolytic

method ? Explain its reaction with

NaOH



26. How is chlorine prepared by electrolytic

method ? Explain its reaction with

NaOH



**27.** How is chlorine prepared by electrolytic method ? Explain its reaction with

 $NH_3$  under different conditions.

**28.** Describe the following:

(i) Acetylation

(ii) Cannizzaro reaction

(iii) Cross aldol condensation

(iv) Decarboxylation

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29. Describe the Cannizaro reaction

**30.** Discuss aldol condensation.



- **31.** Describe the following:
- (i) Acetylation
- (ii) Cannizzaro reaction
- (iii) Cross aldol condensation
- (iv) Decarboxylation



1. Derive Bragg's equation .

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2. Calculate the mole fraction of ethylene glycol  $(C_2H_6O_2)$  in a solution containing 20~% of  $C_2H_6O_2$  by mass.

3. How emulsions are classified ? Give one

example for each type of emulsion.



### **4.** Explain the following :

Zone refining

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**5.** Explain the following :

Poling.

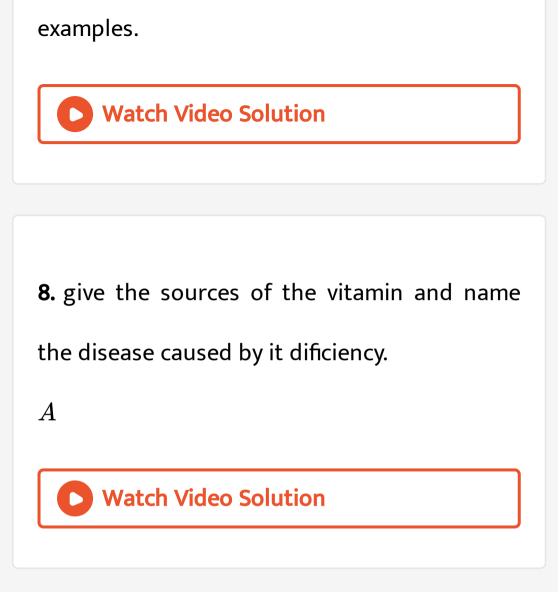


process ? Explain the reactions of ammonia with

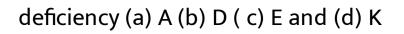
 $CuSO_{4_{\rm (aq)}}$ 

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**7.** Explain geometrical isomerism in Coordination compounds giving suitable



**9.** Give the sources of the following vitamin and name the diseases caused by their



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**10.** Give the sources of the following vitamins and name the disease caused by their dificiency.

E



**11.** Give the sources of the following vitamins and name the disease caused by their dificiency.

K

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12. Explain the Grignard reagents preparation

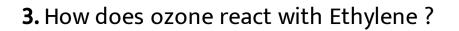
and application with suitable example.

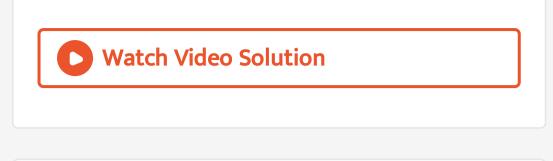


**1.** Give a detailed account of the Collision theory of reaction rates of biomolecular reaction.

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2. How does ozone react with Ethylene ?





4. How is ozone prepared ? How does it react

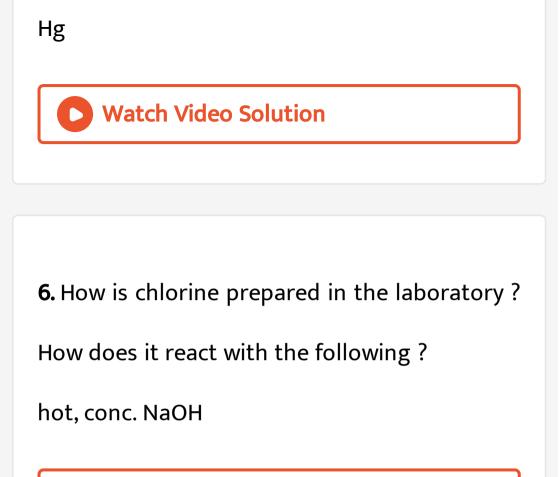
with the following ?

Ag

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5. How is ozone prepared ? How does it react

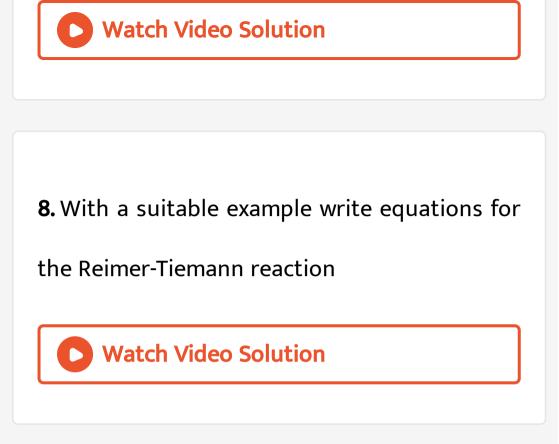
with the following ?



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7. With a suitable example write equations for

the Williamson's ether synthesis



**9.** Explain the following reactions with suitable examples :

Carbyl amine reaction

**10.** Explain the following reactions with suitable examples :

Diazotization

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**11.** What are galvanic cells ? Explain the woriking of a galvanic cell with a neat sketch taking Denicell cell as example.

12. Write the difference between Order and

Molecularity of a reaction.



**13.** How is ammonia manufactured by Haber's process ? Explain the reactions of ammonia with

 $\operatorname{AgCl}(s)$ 

14. How is ozone prepared ? How does it react

with the following ?

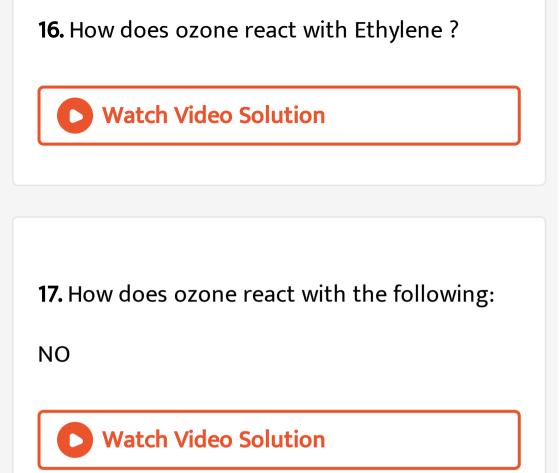
PbS



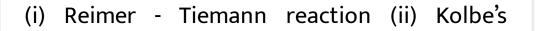
## 15. How is chlorine obtained in the laboratory

? How does it react with the following ?

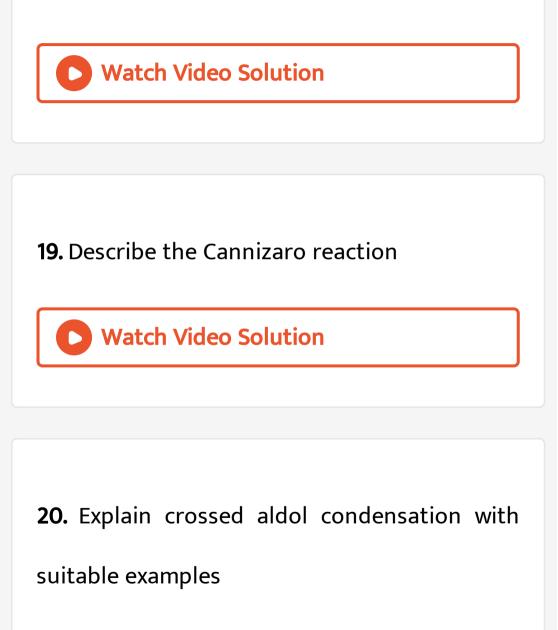
ΚI



**18.** Write the equations involved in the following reactions:



reaction



**21.** Explain the following name reactions :

Sandmeyer reaction

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### 22. State and explain Kohlrausch's law of

indendent migration of ions.

**23.** What is "molecularity" of a reaction ? How is it different from the 'order' of a reaction? Name one bimolecular and one trimolecular gaseous reactions.

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24. How is ozone prepared ? How does it react

with the following ?

PbS

25. How is ozone prepared ? How does it react

with the following ?

ΚI



26. How is ozone prepared ? How does it react

with the following ?

Hg

27. How is ozone prepared ? How does it react

with the following ?

Ag



### **28.** How can you prepare $Cl_2$ from HCl and HCl

from  $Cl_2$  ? Write the reactions.



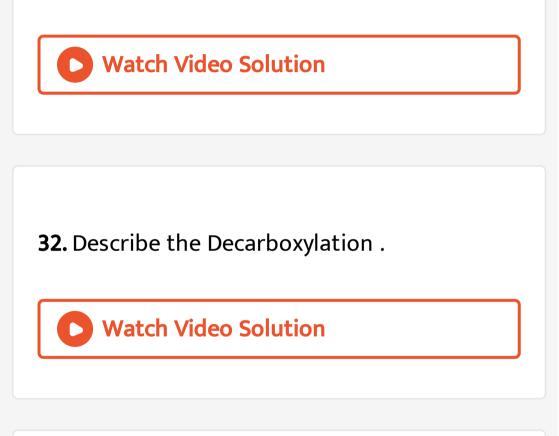
29. Write the equations involved in the following reactions:
(i) Reimer - Tiemann reaction (ii) Kolbe's reaction
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**30.** Explain the following reactions.

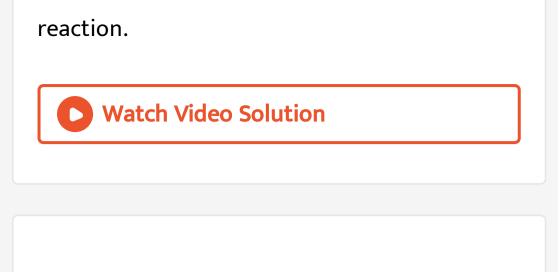
Williamson's Ether Synthesis Aldol

condensation

**31.** Discuss aldol condensation.



**33.** Give a detailed account of the Collision theory of reaction rates of biomolecular



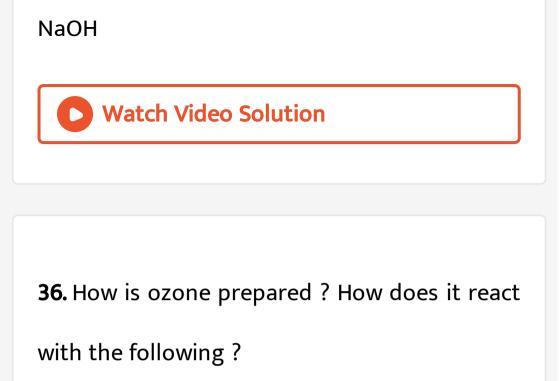
**34.** How is chlorine prepared by electrolytic

method ? Explain its reaction with

NaOH

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**35.** How is chlorine prepared by electrolytic method ? Explain its reaction with

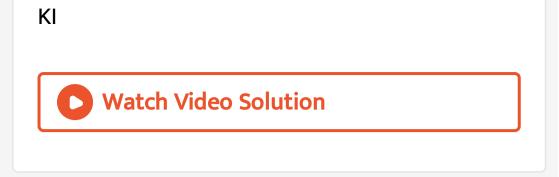


PbS

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37. How is ozone prepared ? How does it react

with the following ?



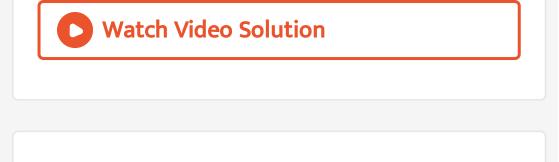
#### 38. How is ozone prepared ? How does it react

with the following ?

Hg

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**39.** How does ozone react with the following:



**40.** Write the equations involved in the following reactions:

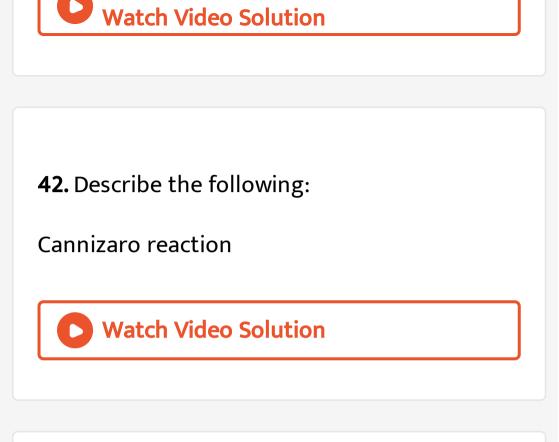
(i) Reimer - Tiemann reaction (ii) Kolbe's reaction

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**41.** Explain the following reactions :

Williamson synthesis





**43.** Describe the following:

Dehydrogenation of alcohols

**44.** The standard emf of Deniell cell is 1.1 V. Calculate the standard Gibbs energy for the cell reactions:

 $Zn_{\,(\,s\,)} + Cu^{2\,+}_{\,(\,aq\,)} \to Zn^{2\,+}_{\,(\,aq\,)} + Cu_{\,(\,s\,)}$ 

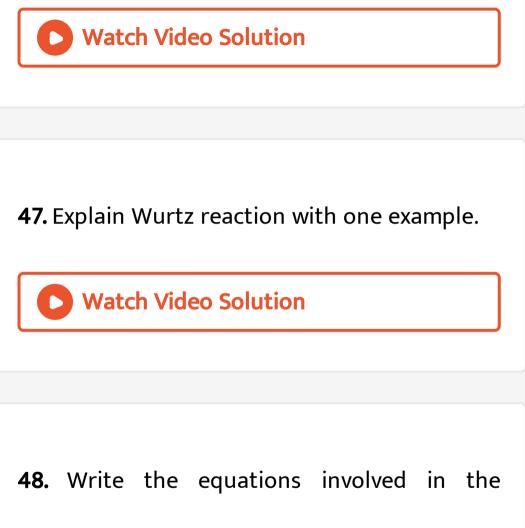
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## **45.** How are $XeF_2$ and $XeF_4$ prepared ? Give

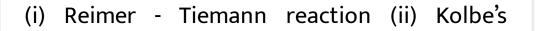
their structures.



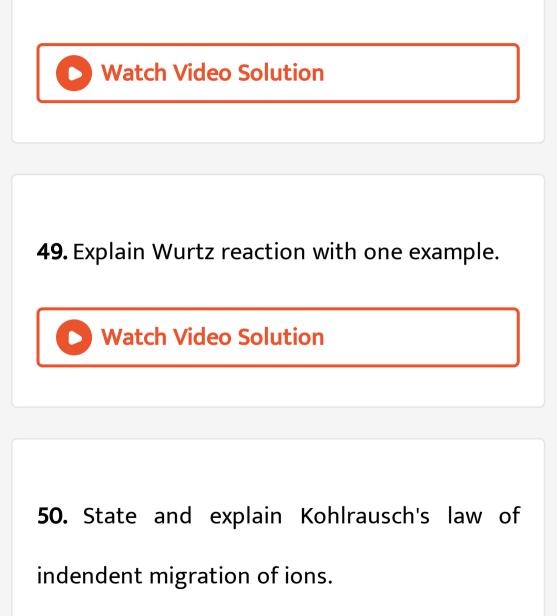
**46.** Explain Wurtz reaction with one example.



following reactions:



reaction



**51.** What are different types of adsorption ? Give any four differences between characteristics of these different types.

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**52.** How is chlorine prepared by electrolytic

method ? Explain its reaction with

NaOH

**53.** How is chlorine prepared by electrolytic method ? Explain its reaction with

NaOH

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54. How is chlorine prepared by electrolytic

method ? Explain its reaction with

NaOH

55. Explain the structures of

 $XeF_2$ 

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**56.** Write the equations involved in the following reactions:

(i) Reimer - Tiemann reaction (ii) Kolbe's

reaction

**57.** Explain the following reactions.

Williamson's Ether Synthesis Aldol condensation

 Williamson's Ether Synthesis Aldol

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**58.** Discuss aldol condensation.

**59.** Describe the following:

(i) Acetylation

(ii) Cannizzaro reaction

(iii) Cross aldol condensation

(iv) Decarboxylation

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60. State and explain Kohlrausch's law of

indendent migration of ions.

**61.** What is "molecularity" of a reaction ? How is it different from the 'order' of a reaction? Name one bimolecular and one trimolecular gaseous reactions.

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## 62. How is ozone prepared from oxygen ?

Explain its reaction with

 $C_2H_4$ 

**63.** How is ozone prepared from oxygen ? Explain its reaction with

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## 64. How is ozone prepared from oxygen ?

Explain its reaction with

Hg

## **65.** How is ozone prepared from oxygen ?

Explain its reaction with

PbS.

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**66.** Describe the following:

Cannizaro reaction

**67.** Describe the following:

(i) Acetylation

(ii) Cannizzaro reaction

(iii) Cross aldol condensation

(iv) Decarboxylation

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**68.** How do you prepare Ethyl cyanide and Ethyl isocyanide from a common alkylhalide ?