



CHEMISTRY

BOOKS - JEEVITH PUBLICATIONS CHEMISTRY (KANNADA ENGLISH)

MODEL QUESTION PAPER 5 FOR PRACTICE



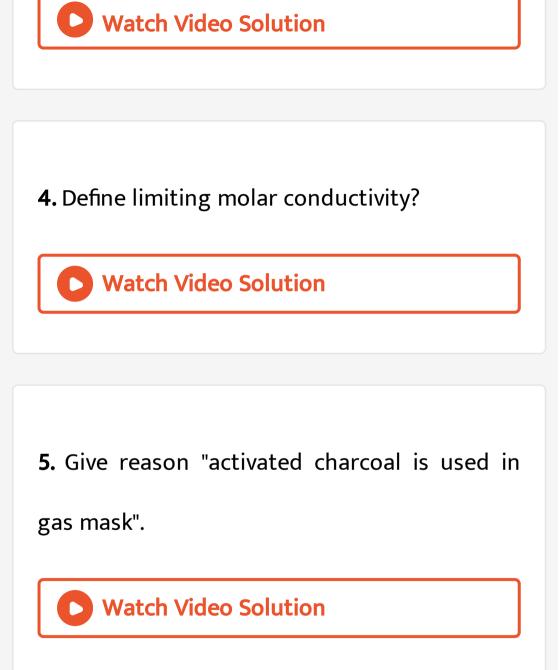
1. What is the SI unit of molar elevation constant (K_b) of a solvent? Watch Video Solution

2. Give an example of a solute for which i=1 in

an aqueous solution.



3. What is secondary cell?



6. Name the refining method used to produce

semiconductors.

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7. What is emulsion?

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8. What are Freons?

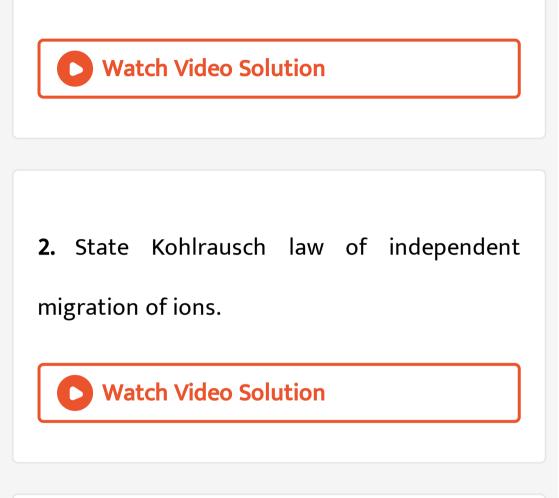
9. Give IUPAC name of CH_3CHO .



10. Name the protein present in hair.



1. Name any two crystal system.



3. Write any two differences between order and molecularity of reaction .



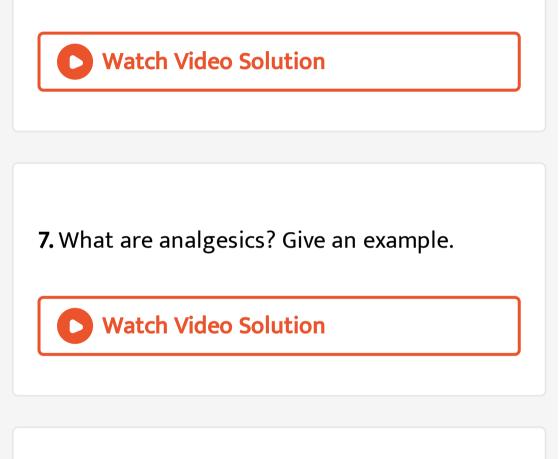
4. What is the formula of the products formed when a lanthanoid (Ln) reacts with (i) halogen(X) (ii) nitrogen?

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5. How is anisole converted into 2-

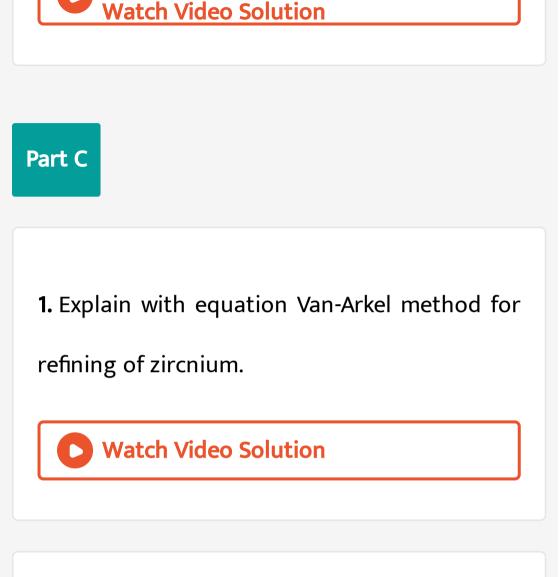
methoxytoluene and 4-methoxytoluene?

6. What is HVZ reaction ? Give example/.



8. What are anti-fertility drugs? Give an example.





2. Describe the equation to manufacture nitric

acid by Ostwald's process.

3. Complete the following reactions:

(i) $2KClO_3 \xrightarrow{MnO_2}{\Delta}$ (ii) $2SO_2(g) + O_2(g) \xrightarrow{V_2O_5}$

(iii) $NO(g) + O_2(g)
ightarrow$.

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4. Explain the action of chlorine on slaked lime

? Give the equation.

5. Fluorine exhibits-1 oxidation state. Give

reasons.



6. What are interstitial compounds? Write any

one their characteristics.



7. Out of the following elements identify the element which does not exhibit variable oxidation state Cr Co Zn.



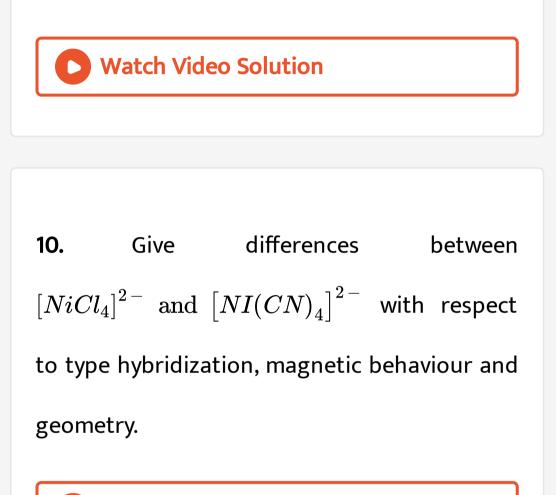
8. What happens when H_2S gas is passed into

potassium dichromate in acidic medium. ? Give

the equation.



9. What is the composition of chromite ore?





11. For $[Co(en)_3]Cl_3$: Give the IUPAC name.



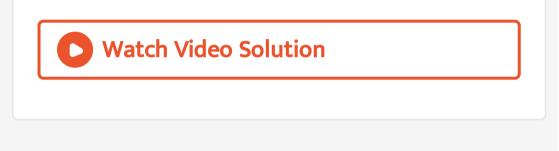
12. For
$$(Co(en)_3)Cl_3$$
.

Give the coordination number of the central metal ion.



13. For $(Co(en)_3)Cl_3$.

What type of hybridisation does it exhibit?



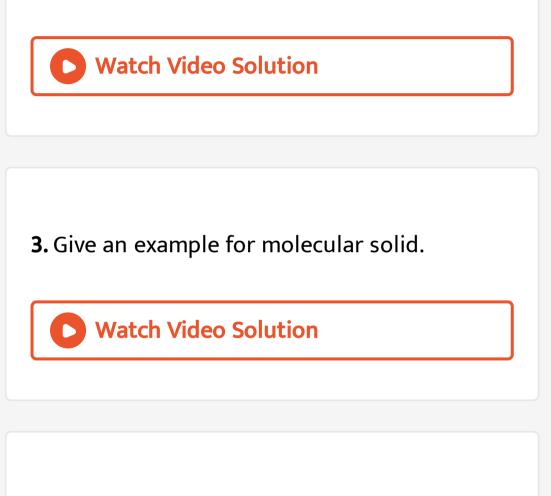


1. Calculate the number of atoms per unit cell

of FCC.

2. What is ferromagnetism? Give an example

for ferromagnetic substance.



4. If 1.71 g of sugar (molar mass=342) is dissoved in 500 cm^3 of a solution at 300K.

What will be its osmotic pressure?



5. Point out the difference between ideal solution and non-ideal solution.

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6. Find the value of AG° at $25^\circ C$ for the

following electrochemical cell.

 $Cuig|Cu^{2\,+}\left(1M
ight)ig|ig|Ag^{\,+}\left(1M
ight)ig|Ag$

 $\left\lfloor Ec_u = \ + \ 0.34V, E^{\,\circ}_{Ag} = \ + \ 0.8V
ight
ceil$

F = 96487C

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7. Draw a neat labelled diagram of H_2-O_2

fuel cell. Write the reaction occurs at cathode of the cell.



8. A reaction is first order in A and second order in B.

(i) Write differential rate equation.

(ii) How is rate affected when concentrated of

B is tripled ?

(iii) How is rate affected when concentration

of both A and B is doubled ?

- 9. Define the terms,
- (i) Temperature coefficient of a reaction.
- (ii) half life period of a reaction.



10. Write any two differences between physical

and chemical adsorption.



11. What is homogenous catalysis? Give an example.

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12. In the coagulation of negative sol, arrange the following ions in the ascending order of their flocculating power Ba^{2+} , Na^+ , Al^{3+} .



1. How do you convert a aryl halide to diphenyl

? Write the eqution and name the reaction.

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2. Write SN^2 mechanism of the conversion of

methyl chloride to methyl alcohol.

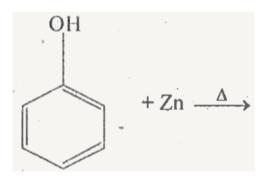
3. With equation, give an example for

(i) Riemer Tiemann reaction.

(ii) Dehydration of primary alcohol.



4. Complete the following equation.





5. Explain the mechanism of addition of HCN to acetaldehyde.

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6. Write any two tests to distinguish between

acetaldehyde and acetone.

7. Give an example for the following properties

of amines.

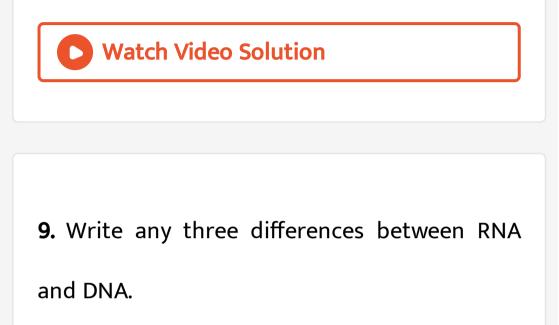
- (i) Coupling reaction.
- (ii) Carbyl amine reaction.



- **8.** 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.

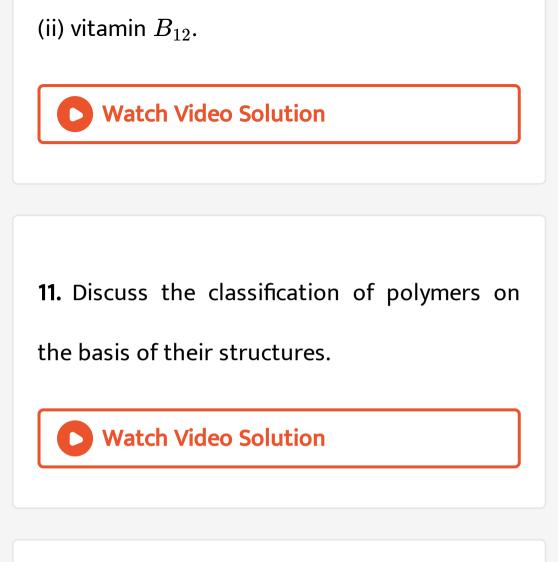
 $(CH_3)_3N_1, (CH_3)_2NH_1, CH_3NH_2.$



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10. What disease is caused by the deficiency of

(i) vitamin C



12. Write the names and structure of the

monomers of Buna-s.



