



CHEMISTRY

BOOKS - UNITED BOOK HOUSE

SET-18



1. State Henry's law regarding solubility of a gas in liquid. On which

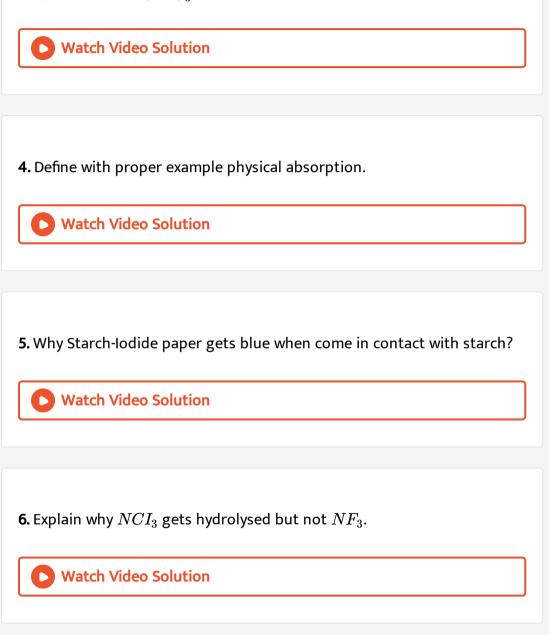
factors Henry's constant (K_H) depends?

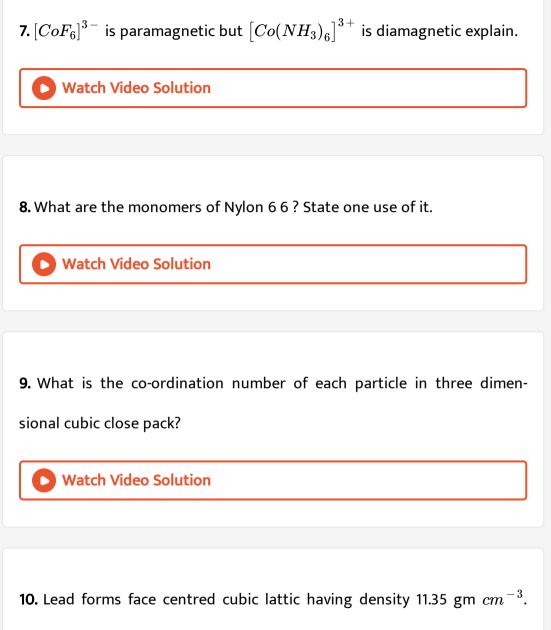
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2. What is an ideal solution? Give example

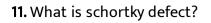
3. Between KCN and K_2SO_4 which one is more effective and why for

coagulation of $Fe(OH)_3$ sol?





What is the radius of Pb atom atwtofPb=207gmmole^(-1]`



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12. Silver forms face centred cubic lattice having edge length 4.086 Å.

Find the density of Silver. (Given At wt of Ag=108).

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13. Why Raoults law for relative lowering of vapour pressure is not applicable for concentrate solution?

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14. The elevation of boiling poin is 0.70K when 12.5gm of a non electrolyte gets dissolved in 175 gm of water. Cacluate mole mass of the substance K_b =52K Kg mol^{-1}



15. State Kohlrauseh laws. Calculate the moler conductance of CH_3COOH at infinite dilution 1 moler conductacne at infinite dilution for HCI, NaCI & CH_3COONa are 426, 126 and 91 $ohm^{-1}an^2mol^{-1}$ respectively.

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16. What is the unit of electrochemical equivalence?

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17. Express standard Hydrogen electrode.

18. Calculate the E.M.F. for the cell given below $Mg(S)|Mg^{2+}(0.001)(M)||Cu^{2+}(0.01M)|Cu(S)$ given $E^{\circ}_{Mg^{2+}/Mg}$ =-2.36V. $E^{\circ}_{Cu^{2+}/Mg}$ =+0.34V

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19. State the reaction that occurs in every stage of iron extraction in blast

fernace.

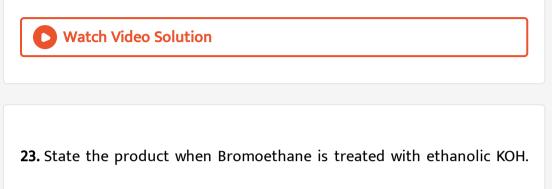
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20. State one basic flux state its formula.



21. What will happen when KI is added to acidified $KMnO_4$ solution.

22. Which trivalent ion shows colour between Pm Lu and why?



Stae mechanis for that reaction.

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24. Identity A-B.

(i) ONa

$$(1)$$
 (1) $($

25. Identity C-D.

(ii) CH3-CH-CH-CH₃
$$\xrightarrow{\dot{H}^+}$$
 C (Main Major) + D (Minor)
 I I I \dot{L} \dot{H} \dot{L} \dot{H}

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26.

https://d10lpgp6xz60nq.cloudfront.net/physics_images/PAT_CHE_0XI_B05_C11_

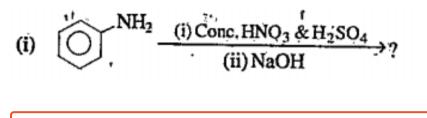
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27. Why Grignard reagent gets dissolved in ether?



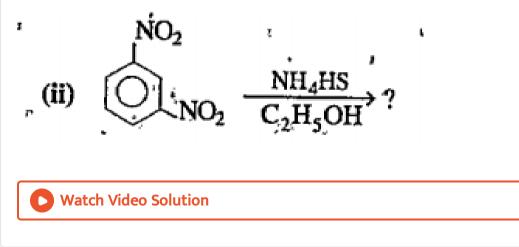
28. How would you distinguish $1^{\circ}, 2^{\circ}, \& 3^{\circ}$ alcohol using Lucas reagent?

29. State the product forms in the following reaction?

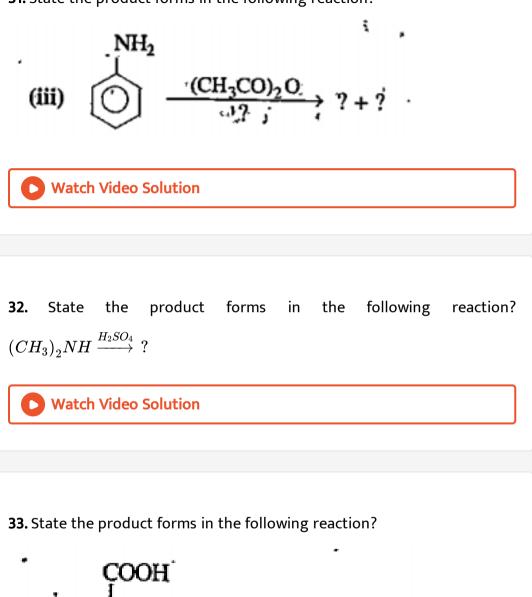


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30. State the product forms in the following reaction?



31. State the product forms in the following reaction?



HN3 Conc H2SO4

34. An organic compound containing C, H, N & O (A) on treatment with NaOH & Br_2 from (B) B on treatment with $NaNO_2$ and Hydrochloric acid forms C a primary alcohol wihc on iodoform test gives yellow-ish crystalline precipitate identify A, B & C. Give reasons and chemi-cal reaction.



35. Write the reactions between D(+) Glucose and (a) Tollen's reagent (b) $NaBH_4$.

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36. Give an example of a protein that taken past in trasportation.

37. Establish the rate equation for 1st order reaction.



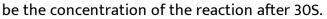
38. Specific reaction rates for a reaction at 300K and 310K are $3 \times 10^{-6} S^{-1}$ and $2.8 \times 10^{-5S^{-1}}$. Calculate the activation enrgy for that reaction.

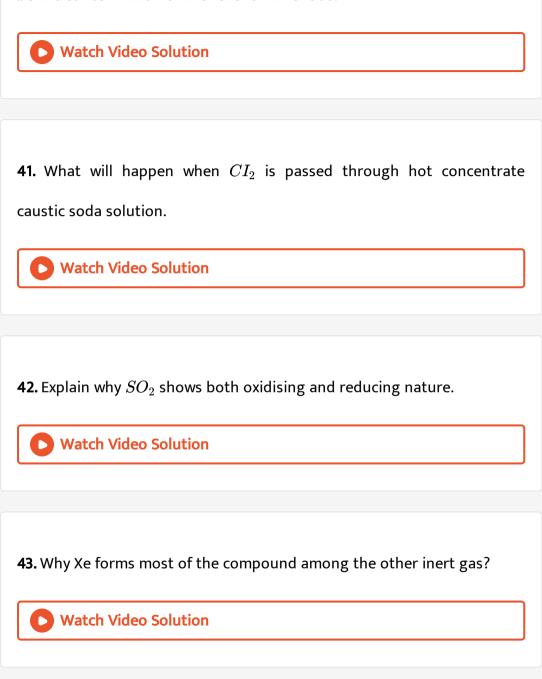
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39. State Arrhenecous equation relating rate of a reaction with temperature dependence. How would you get activation energy from the plotiing of this equation.

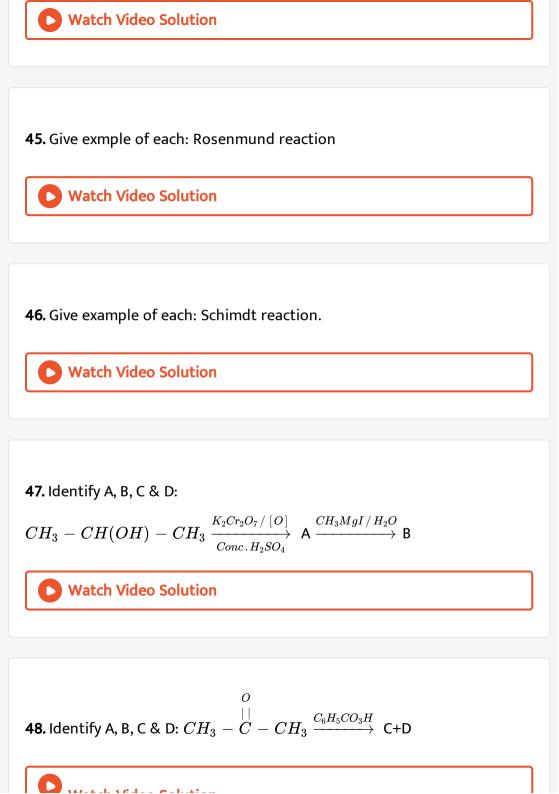


40. For a zero order reaction the initial concentration of the reactant is 1.386 mol L^{-1} . If the half life period of the same be 20S then what. Shall



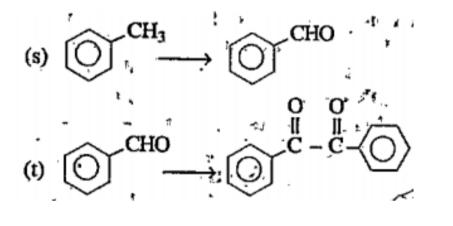


44. Give exmple of each: Etard reaction.





49. How would you carry out the following conversion. $CH_3COOH
ightarrow CH_3CHO$



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50. Quantity of charge in Coulomb required to convert 1 mole $Cr_2O_7^{2-}$ & Cr^{3+} .

A. 96500 Coulomb

B. 289500 coulomb

C. 579000 coulomb

D. 193000 cou-lomb

Answer:



51. Which one among the following gives black precipitate when reacts with ammonia.

A. $FeCI_3$

B. $ZnSO_4$

 $\mathsf{C.}\, NH_4OH$

 $\mathsf{D.}\,Hg_2CI_2$

Answer:

52. Which one shows both optical and geometrical isomerism:

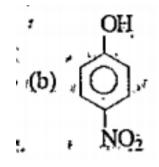
- A. $\left[Pt(NH_3)_2 Cl_2 \right]$
- $\mathsf{B}.\left[Pt(NH_3)Cl_3\right]$
- $\mathsf{C.}\left[Pt(En)_3\right]^{4+}$
- $\mathsf{D.}\left[Pt(En)_2 Cl_2\right]$

Answer:

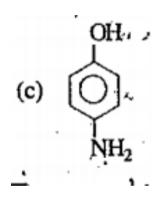
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53. Which one will form effert vescence when added to 5 % $NaHCO_3$ soln.

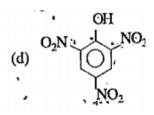
A.



C.



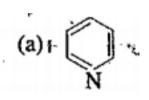




Answer:

54. Which one is most basic

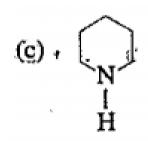
A.



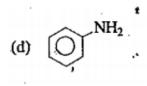
Β.

;(b) H

C.



D.



Answer:

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55. Which one is a natural fibre.

A. Strach

B. cellulose

C. Rubber

D. Nylon

Answer:

56. An anti histamin among the compounds.

A. Ranitidine

B. Luminal

C. Paracetamol

D. Serotonine

Answer:

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57. Sodium form bce lattice with edge length 4.29 $\widehat{\circ}$ A therefore atomic

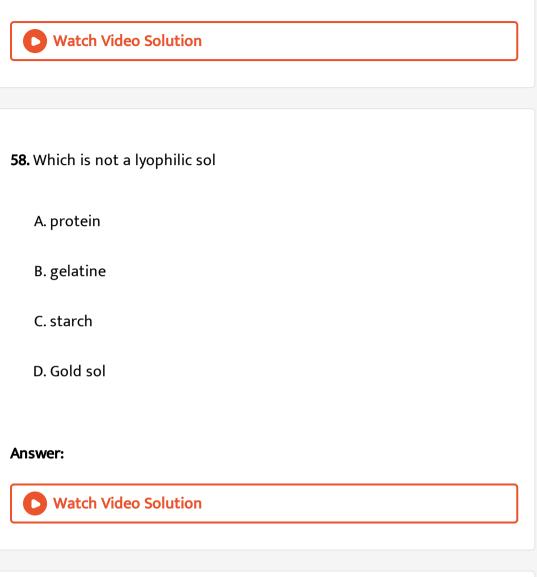
radius of Na atom is .

A. 5.72 ○ A B. 0.93 ○ A

 $\mathsf{C.}\,1.86\,\widehat{\circ}^{-}A$

 $\mathsf{D.}\, 3.22 \ \widehat{\circ}^{-} A$

Answer:



59. Least reactive towards SN1 reaction ?

A. Benzyl Chloride

B. Chloro benzene

C. ethyl chloride

D. Isoproply Chloride

Answer:

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60. Acetone when kept with conc HCI:

A. Mesitylene

B. Mesityl oxide

C. diacetone alcohol

D. Phorone

Answer:

61. The base which is abscent in DNA

A. Adenine

B. Guanine

C. Cytosine

D. Urasil

Answer:

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62. Which one has higest sweetening action.

A. Aspertame

B. Alitame

C. Sucralose

D. Saccarine

Answer: Watch Video Solution 63. State two advantages of using detergents as compare to soap. Watch Video Solution **64.** Calculate Manetic moment in BM of V^{2+} ion. Watch Video Solution **65.** Why Se^{3+} form colourless compound? Watch Video Solution

66. Which one has higher energy of activation value between physisorption and chemisorption?

