



CHEMISTRY

BOOKS - UNITED BOOK HOUSE

SET-7

Exercise

1. In which type crystal $a = b \neq c$,
 $\alpha = \beta = \text{gamma} = 90^\circ$.

A. Octahedral

B. Tetragonal

C. Orthohomlaic

D. hexagonal

Answer:



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2. Electrochemical equivalence of 'Ag' is.

A. 0.001118

B. $0 \cdot 002178$

C. $0 \cdot 005432$

D. $0 \cdot 001005$

Answer:



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3. Which one is more effective for coagulation

of $[Fe(OH)_3Fe]^{3+}$ sol:

A. PO_4^{3-}

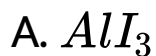


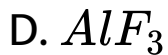
Answer:



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4. Which one has highest ionic character:

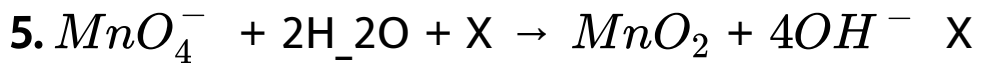




Answer:



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is.

A. 4

B. 3

C. 2

D. 1

Answer:



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6. Oxidation no of Fe in $K_4[Fe(CN)_6]$.

A. 3

B. 0

C. 2

D. 1

Answer:



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7. Which one will give faster S_N^1 reaction:

A. Tertbutyl chloride

B. 1-chlorobutane

C. isobutyl chloride

D. 2-chlorobutane

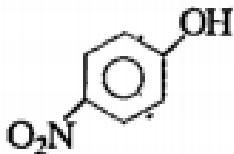
Answer:



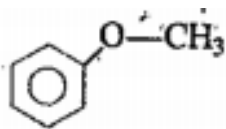
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8. Which one is the main product of Shorten Baumann reaction.

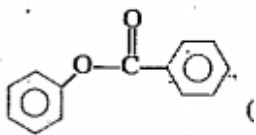
A.



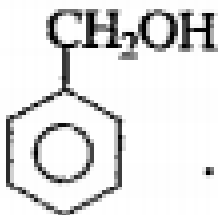
B.



C.



D.



Answer:



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9. Which one is the reagent for witting reaction.

A. Zn/ether dil HCl

B. $Al(OCH_5)_3$

C. $(C_6H_5)_3P / C_6H_5Li$

D. Anhy $AlCl_3$

Answer:



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10. Muliken barker test is done to identify.

A. Alkyl cyanide

B. Alkyl isocyanide

C. Primary aliphatic amine

D. Nitro alkane

Answer:



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11. Refinose is a.....

A. polysacharide

B. monosacharide

C. disacharide

D. trisacharide

Answer:



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12. Nylon is an example of.....

- A. Linear polymer
- B. Branched polymer
- C. Network polymer
- D. homopolymer

Answer:



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13. Glycerol is added to.....

- A. toilet soap
- B. shaving soap
- C. laundry soap
- D. Medicated soap

Answer:



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14. Alitame is.....

- A. Artificial sweetener
- B. Food additive
- C. Preservative
- D. synthemic detergent

Answer:



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15. What is half cell?



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16. Define sp. Conductance?



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17. How do size of particles of adsorbent, pressure of gas and prevailing temperature

influence the extent of adsorption of gas on a solid



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18. What is gold number?



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19. Write the general outer electronic configuration of f block elements.



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20. What is analgesic?



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21. What is Raoult law for vapour pressure of a solution. Give an example of positive deviation or Raoult law.



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22. Calculate the K_b for water given latent heat of vaporisation of water $540\text{Cal} / \text{gm}$.



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23. What is Freundlich adsorption isotherm. Draw $\log x/m$ vs $\log p$ plot for mono layer adsorption.



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24. What is dialysis? State one use of it.



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25. Explain why F_2 forms only HOF and not the higher oxyacids.



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26. Explain the structure of $[ZnCl_4]^{2-}$ what is its magnetic nature?



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27. What is buna-N-Rubber? State one use of it.



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28. Show that the packing efficiency of simple cubic lattice is 47.6%.



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29. What is super conductivity? Define impurity defects of solid with example.



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30. Calculate the Vant Hoff's factor when 5.00 gm Na_2SO_4 dissolved in 45.0 gm water. Given $\Delta T_1 = - 3.82^\circ K$ $K_f = - 1.85^\circ C$.



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31. Calculate the depression of freezing point of 0.1 (M) aqueous soln. of an weak acid for 20% dissociation given $K_f = 1.86 \text{ k//hg mol}^{-1}$.



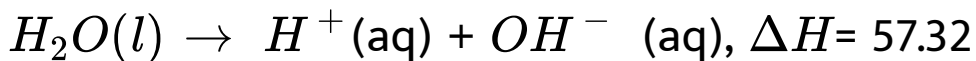
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32. Calculate the equivalent conductance of NaOH given the equivalent conductance at infinite dilution of NH_4Cl , NH_4OH & NaCl are 126.4, 236.4 & $107.3 \text{ mho cm}^2 \text{ eqn}^{-1}$

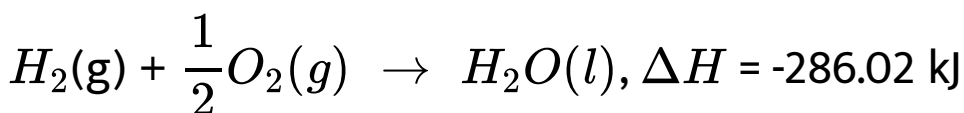


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33. Given that



kJ



Then calculate the enthalpy of formation of OH^- at $25^\circ C$.



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34. Why limestone is use to convert hematite to pig iron. What is the role of silica for the

extraction of Cu.



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35. What is liquation? Name one metal which is purified by it. What is Alnico?



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36. Why the melting point of higher oxides of metal is less as compare to lower circle.

Calculate the number of unpaired electron in V^{3+} ion.



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37. What is lanthanoid contraction? What is misch metal state one use of it.



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38. What do you mean by retention of configuration. What is hoffmann ammonolysis

?



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39. How would you convert.

1 propanol \rightarrow 2 propanol



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40. How would you differ aniline & benzyl amine chemically. What will happen m-

dinitrobenzene is treated with NH_4HS in H_2O / C_2H_5OH .



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41. Why pernicious anaemia causes? What is peptide bond? Name an optically inactive α -amino acid.



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42. Calculate the rate constant and time required to complete 90% reaction for a first order reaction having $t_{\frac{1}{2}} = 30$ minutes. Find $t_{\frac{1}{2}}$ for a 2nd order reaction $K = 4.3 \times 10^{-4} \text{ mol}^{-1} \text{ lit sec}^{-1}$ and initial conc. 0.24 (M).



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43. Write differences between order and molecularities of a reaction. Define activation

energy. What is temperature co-efficient of a reaction.



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44. Write with balanced chemical equation what happen when

XeO_2F_2 is hydrolysed.



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45. Write with balanced chemical equation what happen when Phosphonium iodide is strongly heated with NaOH soln. What is pnicogen?



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46. State reason easily

Xe can be liquified but not He.



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47. State reason: Stain of I_2 can be removed by hypo solution. Which halide of nitrogen does not hydrolysed?



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48. How would you convert

Propanoic acid \rightarrow *Propenoic acid*

Write

Etrad reaction.



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49. How would you convert

Benzaldehyde \rightarrow Acetophenone Write Etrad
reaction.



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