



CHEMISTRY

BOOKS - UNITED BOOK HOUSE

SET-5

Exercise

1. Radius of metal atom that from face centred cubic lattice with length 408 pm.

A. 114 pm

B. 204 pm

C. 288 pm

D. 408 pm

Answer:



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2. The ion having high molar conductance.

A. H^{\oplus}

B. Li^+

C. Na^{\oplus}

D. K^{\oplus}

Answer:



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3. Dialysis is done to:

A. coagulate colloid

B. prepare colloid

C. protect colloid

D. purify colloid

Answer:



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4. Which one is not formed?

A. PCl_5

B. SbF_5

C. BiF_5

D. NCl_5

Answer:



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5. Highest melting point among the 3d block element.

A. Sc

B. Ti

C. V

D. Cr

Answer:



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6. Which one is not a ambidented ligand

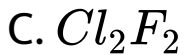
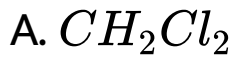


Answer:



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7. Freon is:



Answer:



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8. Libermann reaction is done to find.

A. types of alcohol (aliphatic)

B. ether

C. phenolic OH

D. No of-OH group present in a compound

Answer:



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9. In Stephen reaction reagent used:

A. $Pb - BaSO_4$ / Xylene

B. $SnCl_2$ / $dilHCl$

C. MnO

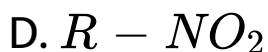
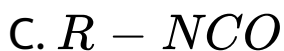
D. Anhy $AlCl_3$

Answer:



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10. $RNC \xrightarrow{HgO}$ A. A is:



Answer:



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11. Ninhydrine is used to identify:

A. *Alpha*-amino acid

B. *Beta*-amino acid

C. d-Glucose

D. Maltose

Answer:



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12. Bakelite is a product of reaction between

- A. Phenol & benzaldehyde
- B. Phenol & formal-dehyde
- C. Formaldehyde & Ethanlo
- D. acetaldehyde & ethylene

Answer:



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13. Aspirin is used in combination with

A. Antacid

B. antibiotic

C. Anti allergic

D. analgesic

Answer:



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14. Bha is a/an:

- A. Food preservative
- B. Antioxi-dant
- C. Artificial sweetner
- D. Synthentic detergent

Answer:



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15. What electro chemical equivalent?



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16. Write the equation for standard hydrogen electrode.



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17. State one use of adsorption process.



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18. What is the magnetic nature of Cu^{2+} ion.



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19. Name one lanthanoid element which has radioactive nature.



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20. Give an example of food preservative.



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21. Why the theoretical osmotic pressure is less than that of practical for electrolytic solution?



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22. Calculate the elevation of boiling point of water when 0.6 gm urea is dissolved in 250 ml water given [K_b 0.52 k.kg mol^{-1}]



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23. Which one is more effective for precipitation of $Fe(OH)_3$ sol Na_3PO_4 or $ZnSO_4$



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24. 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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25. How would you prepare XeF_2 state with condition.



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26. What happened when NH_4OH is added to $CuSO_4$ solution.



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27. What is heteroleptic complex? Give example.



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28. What is mutarotation?



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29. What is crystal defects? Why ZnO when heated becomes yellow?



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30. Calculate the density of chromium if the side length of the unit cell is 290pm & forms body centred cubic lattice. (at wt of Cr is 52)



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31. Find the molecular weight of a solute when 1.2 gm of the solute is dissolved in water at $25^{\circ}C$ in 37.4 mm of Hg.





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32. Why the freezing point of pure solvent is more than that of solution. Draw the curve showing the fact stated above.



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33. Establish the relation between specific conductance and molar conductance of an electrolytic solution.



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34. Write the Nernst equation for EMF of a galvanic cell reduced the eqn for the cell given below. $Cd / Cd^{2+} (aq) | H^+ || H_2(g) | Pt$



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35. State the role of NaCN for the extraction of Gold. Name a metal which is purified by mond process.



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36. How can you synthesis



form

benzene diazonium chloride.



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37. Write Hunsdiecker reaction for the formation of Bromobenzene.



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38. Why a little quantity of ethanol is mixed with chloroform? What is formed when Iodobenzene is heated with Cu-powder?



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39. How would you distinguish chemically isopropyl alcohol from tertiary butyl alcohol?

Why phenol turns pinkish in presence of air?



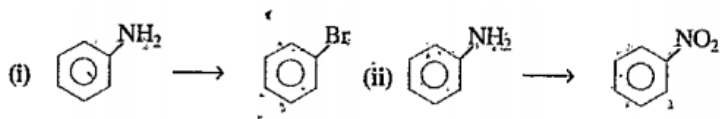
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40. How would you identify the presence of peroxide in ether? What is spirit of wine?



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41. Convert the following:



What is

deamination?



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42. Why Cu^+ ion turns Cu^{2+} in aqueous solution. Which reaction metal is used for the hydrogenation of oil?



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43. What is cellulose? Is cellulose human consumable?



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44. Define order of a reaction? Give example of fractional order reaction?

$NO_2 + H_2 \rightarrow N_2 + H_2O$ If the conc of NO_2 is doubled the reaction rate becomes 4 times as compare to initial rate and if H_2 of doubled the rate become doubled as compare to the

initial rate find the overall order of the reaction.



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45. What is pseudo first order reaction? Give example. How would you determine the rate of a reaction from half life of a reaction.



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46. Why NH_3 is more basic than BiH_3 .

Arrange with explanation the acidic nature of

H_2O , H_2Te , H_2Se . What is trailing of

mercury?



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47. What is the structure of XeF_6 ? Why XeF_6

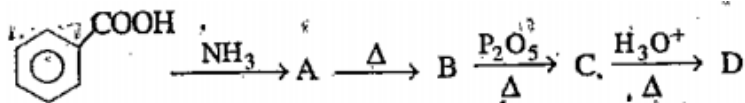
can't stored in glass container? What is used

in beacon light?



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48. Find A, B, C, D.



Give

example of Cross. Cannizaro reaction: What is urotropine.



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