



CHEMISTRY

BOOKS - SHARAM PUBLICATION

SET - 19

Exercise

1. Which of the following is employed as antihistamine?

- A. Omeprazole
- B. Chloromaphenicol
- C. Diphenyl hydramine
- D. Norethindrone

Answer:



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2. Graphite is an example of:

- A. Ionic crystal

B. Covalent crystal

C. Van der Waal's crystal

D. Metallic crystal

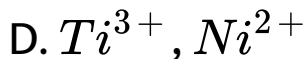
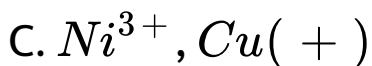
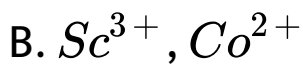
Answer:



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3. In which of the following pairs, both the ions are coloured in aqueous solution?

A. Sc^{2+} , Ti^{3+}

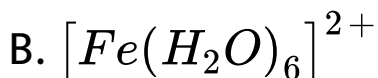
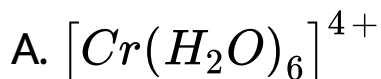


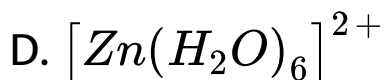
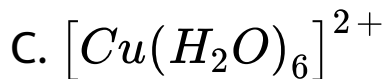
Answer:



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4. Which has highest paramagnetism:





Answer:



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5. The compound formed as a result of oxidation of ethyl benzene by $KMnO_4$ is

A. benzyl alcohol

B. benzophenone

C. acetophenone

D. benzoic acid

Answer:



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6. The standard electrode potentials of three metals X, Y and Z are -1.2 V , $+0.5\text{V}$ and -3.0V respectively. The reducing power of these metals will be

A. $X > Y > Z$

B. $Y > Z > X$

C. $Y > X > Z$

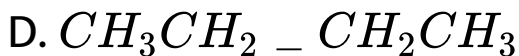
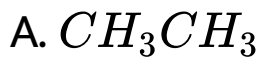
D. $Z > X > Y$

Answer:



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7. Which of the following is the reaction product of ethyl amine with CH_3MgBr ?



Answer:



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8. Which compound is formed when nitromethane is reduced by Zn dust and NH_4Cl solution?



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9. Give two examples of antimicrobials.



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10. Define space lattice.



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11. Write the rate equation for a zero order reaction of the type $A + B \rightarrow C$.



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12. Which one of the following methods is used in the concentration of sulphide ore?



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13. Which hydride of Gr 15 elements has highest boiling point?



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14. What product is formed when chlorine is passed through acidified KBr solution?



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15. What do you mean by tailing of mercury ?



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16. Why do the transition elements form coloured compounds?



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17. Match the items of column I and column II.

Column - I	Column - II
(i) Butter	(a) dispersion of liquid in liquid
(ii) Pumice stone	(b) dispersion of solid in liquid
(iii) Milk	(c) dispersion of gas in solid
(iv) Paints	(d) dispersion of liquid in solid



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18. At 373K the half-life period for the thermal decomposition of N_2O_5 is 4.6 sec and is independent of initial pressure of N_2O_5 .

Calculate the specific rate constant of this reaction.



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19. Write the structure of the major organic products in each of the following reactions.



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20. Write the structure of the major organic product in each of the following reactions:



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21. Write uses of methanol and ethanol.



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22. What happens when benzoic acid is treated with $SOCl_2$?



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23. How can you prepare phenol by using benzene diazonium chloride ?



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24. A solution containing 9.6 g of a substance in 100g of water boiled at $100.8^{\circ}C$ at 1 atm pressure. Calculate the molecular mass of substance. Calculate the molecular mass of substance. (Boiling elevation constant for water = $0.52^{\circ}C$ per 1000g of it)



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25. What is the action of NH_3 with Cupric Oxide?





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26. Write a note on different types of molecular solids?



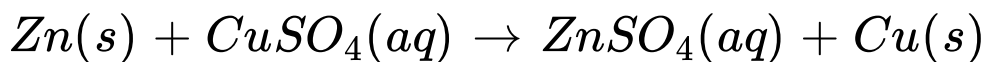
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27. State and explain Raoult's law.



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28. What do you mean by an electro chemical cell? Write the cell representation for the cell



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29. Discuss electrolytic refining of copper.



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30. Discuss the general trend in the following properties of Group 17 elements.

Atomic and ionic radii



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31. Discuss the general trend in the following properties of Group 17 elements.

Ionization enthalpy.



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32. Discuss the general trend in the following properties of Group 17 elements.

Electron gain enthalpy.



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33. Account for the fact that $[Ni(CO)_4]$ has tetrahedral geometry where as $[Ni(CN)_4]$ has square planar geometry.



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34. Discuss the mechanism of S_N2 reaction.



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35. What happens when anisole is treated with CH_3Cl in presence of *Anh.* $AlCl_3$ and CS_2 ?



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36. Write a note on Cannizzarro's reaction.



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37. Why does acetaldehyde does not undergo this reaction? Cannizzaro reaction



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38. Boiling point of ethers are less than those of isomeric alcohols give reason.



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39. The boiling points of the alcohols are higher than the alkanes of corresponding molecular weight because .



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40. Discuss the general trend in properties of transition elements with reference to variable oxidation states.



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41. Discuss the general trend in properties of transition elements of 1st row with reference to colour



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42. Discuss the general trend in properties of transition elements of 1st row with reference to catalytic property.



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43. Discuss Victor Meyer test for distinction between primary, secondary and tertiary alcohols.



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44. Discuss the mechanism of dehydration of alcohols to form alkenes.



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45. Between O- nitrophenol and P- nitrophenol ,which is more acidic and why?



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46. How is ethylamine prepared from methyl cyanide? Give its reaction with $CHCl_3$ and alc.KOH solution.



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47. When a current of 0.75 ampere is passed through $CuSO_4$ for 25 mins, 0.369 g of copper is deposited at the cathode. Calculate the atomic mass of copper.



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48. Show that depression in freezing point is a colligative property?



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49. Calculate the boiling point of a solution containing 0.456g camphore (mol.mass = 152) dissolved in 31.4g of acetone (b.p $56.3^{\circ}C$), if the molecular elevation constant per 1000g of acetone is $17.2^{\circ}C$



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