



CHEMISTRY

BOOKS - MODERN PUBLICATION

TEST PAPER 7

Exercise

1. Aniline reacts with acetaldehyde to form :

A. Schiff's base

B. carbonyl amine

C. imine

D. none of these

Answer: A



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2. Which alignment of domains leads to antiferromagnetism ?

A. ↑ ↑ ↑ ↑ ↑ ↑

B. $\uparrow \uparrow \downarrow \uparrow \uparrow \downarrow$

C. $\uparrow \downarrow \uparrow \downarrow \uparrow \downarrow$

D. none of these

Answer: C



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3. The SI units of molar conductance are :

A. $S\,m^{-2}\,mol^{-1}$

B. $S\,m^2\,mol^{-1}$

C. $\text{Sm}^{-1}\text{mol}^{-1}$

D. $\text{Sm}^3\text{mol}^{-1}$

Answer: B



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4. Which of the following belong to the actinide series of elements ?

A. Y

B. T

C. U

D. Lu

Answer: C



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5. The hybridisation of Fe in $K_4[Fe(CN)_6]$

complex is:

A. $d^2 sp^2$

B. $d^2 sp^3$

C. dsp^2

D. sp^3

Answer: B



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6. Which of the following would be most reactive towards nitration ?

A. benzene

B. nitrobenzene

C. toluene

D. chlorobenzene

Answer: C



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7. Helical structure of protein is stabilised by :

A. dipeptide bonds

B. hydrogen bonds

C. ether bonds

D. peptide bonds

Answer: B



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8. What is the unit of rate constant for a reaction of n th order ?



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9. What are antibiotics? Writedown the name of two antibiotics.



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10. The transition metal present in vitamin B_{12} is:



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11. Name the complex used in the treatment of cancer.



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12. van't Hoff factor 'i' for $K_4[Fe(CN)_6]$ aqueous solution is _____



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13. Charge on one mole of electron is _____



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14. Which of the following is the IUPAC name of $K_4[Fe(CN)_6]$?



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15. Why are rubbers called elastomers ?



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16. What is meant by anisotropy ?



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17. Write the significance of Henry's law constant K ?



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18. Calculate the quantity of Al-metal obtained from molten alumina by passing 965 coulomb

of electricity.



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19. Explain the following terms:

Tyndall effect



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20. What is difference between calcination and roasting ?



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21. Explain magnetic behavior of transition elements.



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22. In cupramine sulphate complex find out the oxidation number and coordination number of copper.



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23. Match the following columns

(i) Match the following :

I

II

- | | |
|--------------------|-------------------|
| (i) Methyl alcohol | (p) Proto phillic |
| (ii) Benzene | (q) Protogenic |
| (iii) Ammonia | (r) Amphiprotic |
| (iv) Acetic acid | (s) Aprotic |



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24. Can you use soaps and synthetic detergents to check the hardness of water ?



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25. How can you distinguish between ethyl amine and diethyl amine using any chemical test ?



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26. What is crystal field splitting ?



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27. What are the secondary valencies ?



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28. Define anisotropy.



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29. What is difference between physisorption and chemisorption ?



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30. Why are certain drugs called enzyme inhibitors ?



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31. What is meant by "High spin complex"?



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32. How is polyacrylonitrile formed ? What is its trade name ?



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33. Elucidate the differences between soaps and detergents.



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34. Draw the structures of different isomers corresponding to the molecular formula C_3H_9N . Write the IUPAC names of the isomers

which will liberate nitrogen gas on treatment with nitrous acid.



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35. Write notes on : Classification of solids



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36. What is galvanic cell?



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37. Describe the construction and working of Daniell cell.



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38. Write Nernst equation.



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39. What are 1°, 2°, and 3°amines?



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40. How can you distinguish aniline from methyl amine?



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41. Write notes on preparation of chlorine.



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42. Give two methods of preparation benzoic acid.



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43. How does acetaldehyde react with

(i) PCl_5 (ii) C_2H_5OH (iii) $LiAlH_4$



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