



CHEMISTRY

BOOKS - SHARAM PUBLICATION

SOLVED PAPER 1

Exercise

1. The Crystal lattice of sodium chloride is

A. Face-Centred

B. Body-Centred

C. Simple Cubic

D. Hexagonal Closepacking

Answer:



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2. The halogen which has highest electron gain enthalpy is

A. F_2

B. Cl_2

C. Br_2

D. I_2

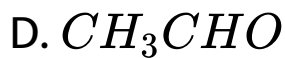
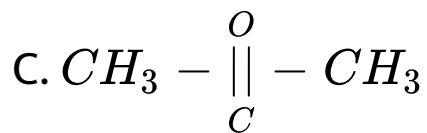
Answer:



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3. Which of the following compounds will not respond to iodoform test?

A. CH_3CH_2OH



Answer:



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4. Which one of the following is a natural polymer?

A. Polyester

B. Nylon-6

C. Protein

D. Teflon

Answer:



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5. For which of the following area froth floatation process of concentration of ore is applicable?

A. Oxide

B. Sulphide

C. Carbonate

D. Sulphate

Answer:



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6. Which of the following is most basic?

A. Aniline

B. P- nitroaniline

C. Benzylamine

D. Benzamide

Answer:



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7. The maximum amount of a solid solute that can be dissolved in a specified amount of a given liquid solvent does not depend upon

A. Temperature

B. Pressure

C. Nature of the solute

D. Nature of solvent

Answer:



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8. The electrode potential of

$Pt(s) | H_2(1atm), H^+(1m)$ electrode is

..... .



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9. Give an example of a cationic detergent.



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10. Write the name of two antipsychotic agents.



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11. Give the dispersion medium and dispersed phase of the following : (i) smoke



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12. Which non -metal is present in the alloy of steel?



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13. Which hydride of Gr15 element is more basic?



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14. What is the oxidation number and coordination number of Cobalt in $[Co(NO_2)_6]^{3-}$ ion..



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15. What are Antifertility Drugs? Give two examples.



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16. What happens when H_2S gas is passed through acidified $KMnO_4$ solution?



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17. What type of defect will arise when a solid is heated? Which physical property is affected by it and in what way?



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18. What is condensation polymerisation? Give an example.



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19. Write any two uses of Ne and Ar ..



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20. What do you know by relative lowering of vapour pressure?



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21. What is Fitting reaction? Give an example.



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22. What is calcination process? Explain with an example?



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23. What is Gatterman - Koch reaction? Give equation.



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24. What is meant by selectivity of a catalyst?



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25. Discuss Frenkel defect.



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26. What is the reaction of ammonia with chlorine?



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27. Write short notes on: Aldol condensation reaction.



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28. What is carbylamine reaction. Explain with example.



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29. Write the differences between true solution , colloidal solution and suspension.



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30. Write short notes on : Werner's theory of co-ordination compounds.



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31. What is Fittig and Wurtz-Fittig reaction?



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32. Fill in the blanks : 1° , 2° and 3° alcohols are distinguished by test.



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33. Write short note on activation energy.



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34. Why do the transition elements form coloured compounds?



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35. Define specific conductance and molar conductance. Give their unit. What is the relation between them?



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36. Calculate molar conductance at infinite dilution for $Ba(OH)_2$. The molar conductance of NaOH, NaCl and $BaCl_2$ at infinite dilution are 2.481×10^{-2} , 1.265×10^{-2} and $2.8 \times 10^{-2} Sm^2 mol^{-1}$ respectively.



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37. Define order of reaction and molecularity of reaction. Derive an expression for the rate

constant of a reaction of the type $A \rightarrow$
product.



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38. One fourth of a first order reaction is completed in 32 mins. What is the half life of the reaction?



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39. Discuss the splitting of d-orbitals of the metal ion in an octahedral field. What do you mean by Crystal field stabilization energy?



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40. How is phenol prepared by Dow's process? What happens when phenol is treated with Br_2 in CS_2 at 273K.



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41. How is phenol prepared by Dow's process?

What happens when phenol is treated with

heated with Zn dust ?



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42. How can you differentiate between

addition and condensation polymerisation?



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43. Write the synthesis of following polymers.

Dacron



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44. Write the synthesis of following polymers.

Buna-S.



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