



CHEMISTRY

BOOKS - SHARAM PUBLICATION

SET 16

Exercise

1. Write the IUPAC name of $[Co(NH_3)_5ONO]Br_2$

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2. Write the structure of Nylon 6, 6.

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3. What is the order of a reaction if the plot of $\log c$ versus time is a straight line with a negative slope?

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4. Write the electronic configuration of Mn^{2+} and Cu^+ ions.

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5. Which type of compounds show iodoform reaction ?

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6. What happens when propene is treated with HBr in the presence of benzyl peroxide . Give equation .

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7. How many atoms are present in each unit cell of a simple cubic crystal?

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8. Colligative properties depend upon

- A. Nature of the solute particles in solution
- B. The number of solute particles in solution
- C. The physical properties of the solute particles dissolved in solution
- D. The nature of solvent particles.

Answer:

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9. For the reduction of silver ions with copper metal, the standard cell potential was found to be +0.46 V at 298K . The value of standard Gibbs energy, ΔG° will be ($F = 96500 \text{ C mol}^{-1}$)

A. -98.0 KJ

B. -89.0 KJ

C. -88.7 KJ

D. -44.5 KJ

Answer:



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10. The rate of the reaction $2\text{NO} + \text{Cl}_2 \rightarrow 2\text{NOCl}$, is given by the rate constant can be increased by

- A. increasing the temperature
- B. Increasing the concentration of NO
- C. Increasing the concentration of Cl_2
- D. doing all of these

Answer:



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11. The gas used for inflating the tyres of aeroplanes is:

- A. H_2
- B. He
- C. N_2
- D. Ar

Answer:



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12. The highest oxidation state of Manganese is

A. 3

B. 6

C. 5

D. 7

Answer:



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13. Chloramphenicol is

A. antiseptic and disinfectant

B. antihistamine

C. antibiotic

D. antifertility drug

Answer:

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14. Which of the following does not react with Hinsberg's reagent?

A. $C_2H_5NH_2$

B. $(C_2H_5)_2NH$

C. $(C_2H_5)_3N$

D. CH_3NH_2

Answer:

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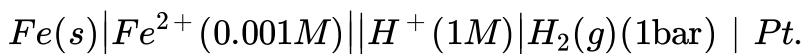
15. What happens when formic acid is reduced by lithium aluminium hydride?

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16. How is Dacron synthesised?

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17. Write the Nernst equation and emf of the following cell at 298K.



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18. What is especially observed when a beam of light is passed through a colloidal solution?

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19. When do you observe, when NaCl solution is added to Ferric hydroxide Sol?

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20. Give two characteristics of 1st order reaction.

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21. How is nickel refined by Mond's process ?

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22. What is the action of cold dilute HNO_3 with Zinc?

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23. Distinguish between double salt and complex salt

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24. Give a chemical test to distinguish between acetaldehyde and benzaldehyde.

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25. Give three differences between crystalline and Amorphous solids.



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26. Write short note on activation energy.



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27. Write the favourable conditions in the Haber's process of manufacture of NH_3



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28. What happens when NH_3 is added to Copper sulphate solution.



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29. Why does argon not form diatomic molecules like oxygen and nitrogen? Write two uses of argon.

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30. What is the reaction of HCl with MnO_2 and Na_2SO_3 ?

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31. Define specific conductance, equivalent conductance. What are their units? What is the effect of dilution on them?

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32. What is Bouveault-blanc reduction reaction?

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33. How will you convert nitrobenzene to benzoic acid?

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34. Give a chemical test to distinguish between phenol and ethyl alcohol. What happens when metallic sodium is added to both ?

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35. What are biodegradable and non-biodegradable detergents? Give one example of each.

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36. Write a note on optical property of colloids.



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37. For coagulation of 1000 ml of Arsenious sulphide sol, 50 ml of 1 (M) NaCl is required. What is the coagulation value of NaCl?



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38. What are alcosols and aerosols? Give one example of each.



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39. How will you calculate the molecular mass of a solute from depression in freezing point measurement?



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40. Calculate the freezing point of an aqueous solution containing 10.5g of $MgBr_2$ in 200 g water.

(*Mol. Mass of $MgBr_2 = 184$ and K_f of water = $1.80 K kg mol^{-1}$*)

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41. Give the principle of manufacture of H_2SO_4 by contact process.

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42. Write the structure of oxoacids of sulphur.

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43. What happens when ethanol is treated with conc.

H_2SO_4 at 443 K



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44. How will you prepare acetone from
Isopropyl alcohol



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45. How will you prepare acetone from
Propyne?



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46. What happens when acetone reacts with: Phenyl hydrazine



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47. Arrange p-nitrophenol, o-nitrophenol and phenol in order of decrease in acidity.

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48. How are polymers classified on the basis of their structure ?

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49. Write the synthesis of following polymers.

Buna-S.

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50. Briefly describe the synthesis of the polymer PVC and its specific uses.



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51. Write the synthesis of

Teflon



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