



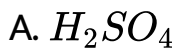
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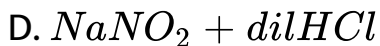
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SET 14

Exercise

1. Acetamide is converted to methyl amine on treatment with





Answer:

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2. When a solution of Formaldehyde and Conc.NaOH is heated, it will give

A. acetylene and methane

B. methanol and sodium formate

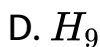
C. methanol and methane

D. acetylene and methanol

Answer:

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3. Which of the following chemicals liberates bromine from a solution of KBr?



Answer:

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4. Which of the following is antihistamine?

A. ranitidine

B. Lansoprazole

C. Luminal

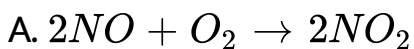
D. Terfenadine

Answer:

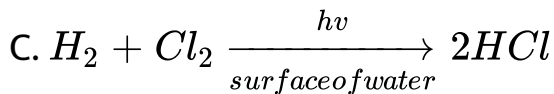
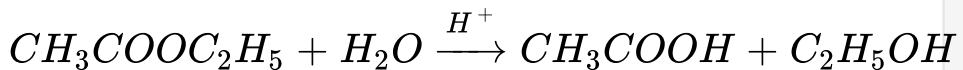


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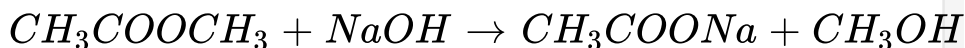
5. Which of the following reaction is a zero order reaction?



B.



D.



Answer:



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6. Calculate the number of coulombs of electricity required for conversion of one mole of $Cu^{2+} \rightarrow Cu$.

A. 96500

B. 2×96500

C. 3×96500

D. 4×96500

Answer:



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7. In the halogen family, the oxidising action increases in the order.

A. F It Cl It Br It I

B. Cl It I Br It F

C. I It F It Cl It Br

D. I It Br It Cl It F

Answer:

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8. What is the ECE of Ag ?

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9. Write the electronic configuration of scandium.

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10. Derive the formula to calculate the density of a cubic crystal of elements.

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11. Write name of two addition polymers.

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12. Write the IUPAC name of $K_3[Fe(CN)_6]$

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13. What is the emf of a standard hydrogen electrode?



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14. Write the name of two antifungals.



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15. How can you convert bromobenzene to benzoic acid ?



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16. How is salicylaldehyde prepared from carbolic acid ?



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17. Difference between double salt and complex salt.

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18. What is flux? Give an example.

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19. How does the bleaching action of chlorine differ from that of sulphur dioxide? Explain.

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20. What is galvanic cell? Give an example.



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21. Derive the equation for the rate constant of a first order reaction and show that the time required for the completion of half of the first order reaction is independent of initial concentration.

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22. Identify A, B, C and D in the following sequence of reactions



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23. Why aniline is less basic than methyl amine?

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24. A compound formed by elements A and B crystallizes in cubic structure where A atoms are at the corners of a cube and B atoms are at the face centre. The formula of the compound is :

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25. What are polar and non-polar molecular solids? Explain with two examples of each.

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26. Write the relation between decrease in free energy and equilibrium constant of a cell reaction.

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27. What do you mean by relative lowering of vapour pressure? Calculate the relative lowering of Vapour pressure of a solution formed by dissolving 50 g of urea (NH_2CONH_2) in 850g of water.(Given vapour pressure of pure water at 298K= 23.8mm of Hg.)`

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28. Why sulphide ores are concentrated by froth floatation process.

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29. What happens when acetone reacts with: Phenyl hydrazine

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30. Which of the following ions will exhibit colour in aqueous solution and why? Give reason

Cu^+ , Ni^{2+} , V^{3+}

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31. Why is phenol more acidic than methanol and less acidic than 4-nitrophenol?

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32. Give a method of distinction of 1° , 2° and 3° alcohol.

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33. How can you prepare acetic acid from CH_3MgBr ?

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34. What happens when isopropyl alcohol vapour is passed over red hot copper at $300^{\circ}C$ and the product formed is treated with Zinc amalgam and Conc-HCl?

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35. How is sulphuric acid prepared by contact process?
Write its reaction with H_2S and KBr .

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36. What mass of silver will be deposited at the Cathode when a solution of $AgNO_3$ is electrolysed by passing a current of 2 amperes for 30 minutes. (Eq.mass of Ag=108)

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37. What are lyophobic and lyophilic solids?

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38. Differentiate between multimolecular and macromolecular colloids.

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39. Write the name of two disinfectants.

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40. Ethyl alcohol is treated with *Conc. H_2SO_4* at $140^\circ C$

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41. How will you prepare ethanol from acetaldehyde?

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42. Why are lower alcohols completely soluble in water?

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43. Write note on

Addition and Condensation polymerization.

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44. Write notes on Gabriel phthalimide synthesis.

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