



CHEMISTRY

BOOKS - SHARAM PUBLICATION

2010 QUESTION PAPER

Exercise

1. Acetyl chloride cannot be obtained by the reaction of acetic acid with

A. $SOCl_2$

B. Cl_2

C. PCl_3

D. PCl_5

Answer:



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2. To which of the following class of organic compounds soap belongs

A. Ester

B. Amine

C. Aldehyde

D. Salt of organic acid

Answer:



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3. The correct order of acidic strength is

A.



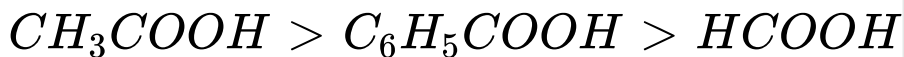
B.



C.



D.



Answer:



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4. Electrophilic substitution reaction in aniline takes place at

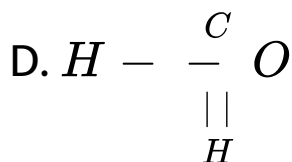
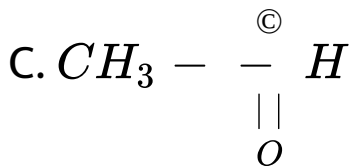
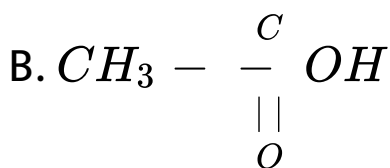
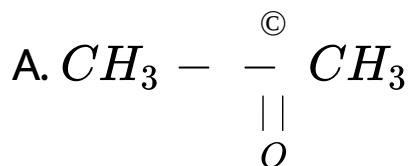
- A. m - position
- B. Only o - position
- C. Only p- position
- D. o and p position

Answer:



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5. What happens when a mixture of calcium acetate and calcium formate is dry distilled?



Answer:



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6. XeF_6 on complete hydrolysis gives

A. Xe

B. $XeOF_2$

C. XeO_2

D. XeO_3

Answer:



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7. Which one of the following is the ore of copper ?

A. Bauxite

B. Dolomite

C. Chalcopyrite

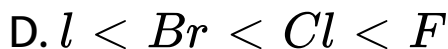
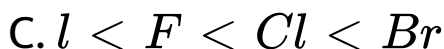
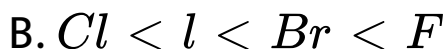
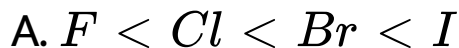
D. Haematite

Answer:



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



Answer:



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9. Acid hydrolysis of ethyl acetate is

- A. Zero order
- B. First order
- C. Second order
- D. Third order

Answer:



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10. In the esterification reaction _____ of alcohol _____ and of carboxylic acid are removed as water.



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11. Fill in the blanks : λ - isomer of benzene hexachloride is called



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12. Condensation of ethylene glycol with terephthalic acid produces a compound called

.....



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13. Fill in the blanks : ${}^6_{12}\text{C} + {}^2_4\text{He} \rightarrow {}^8_{14}\text{O} + \dots$

.....



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14. Fill in the blanks : For an exothermic reaction ΔH is



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15. Name the major product and write the name of the reaction when benzene is allowed to react with methyl chloride in the presence of a Lewis acid.



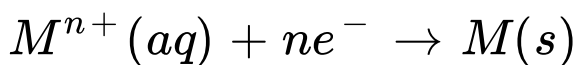
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16. Which group is common to all the derivatives of acetic acid ?



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17. Write the Nernst equation for electrode reaction.



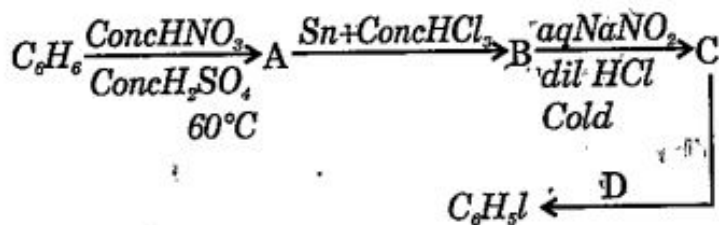
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18. Write the IUPAC name of $K_2[PtCl_6]$



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19. Identify A, B, C and D.



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20. How can you convert bromobenzene to benzoic acid ?



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21. What is 'Green House Effect' ?



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22. How can you distinguish between acetamide and N-methyl acetamide?



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23. Correctly match List -I with List - II :

List-I *List-II*

- | | |
|----------------|------------------|
| (A) Ampicillin | (i) Detergent |
| (B) Bakelite | (ii) Antipyretic |
| (C) Crocin | (iii) Polymer |
| (D) Surf | (iv) Antiseptic |
| | (v) Antibiotic |



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24. What structural features are necessary for an organic compound to exhibit iodoform reaction ? Give example.



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25. How is salicylaldehyde prepared from carbolic acid ?



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26. Tollen's reagent is-



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27. Difference between double salt and complex salt.



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28. Why NH_4Cl is used along with NH_4OH for precipitation of III (A) metal hydroxides ?



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29. What is the function of limestone the extraction of iron? Give equation to explain its action.



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



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31. What do you understand by the term "Packing fraction" ?



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32. Why HF cannot be stored in glass bottle ?



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33. What is galvanic cell? Give an example.





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34. What is zero order reaction? Give one example.



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35. State and explain Faraday's law of electrolysis. When a current of 1.5 amperes strength is passed through a solution of a salt of a metal (atomic mass = 112) for 15 min ,

0.783 g of the metal is deposited. Find out the valency of the metal.



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36. Describe a method for the manufacture of ozone. Explain why ozone is not collected over mercury?

How does it react with (i) moist iodine and (ii) barium peroxide?



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38. What are transition elements ? Describe any four characteristic properties of transition elements.



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39. How is methyl amine prepared from nitromethane and acetamide? How does it react with (i) acetylchloride and (ii) excess of methyl iodide? Compare the basic character of CH_3NH_2 , $(CH_3)_2NH$ and $(CH_3)_3N$ in aqueous solution with justification.



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41. How is benzaldehyde prepared by Etard's reaction ? How does it react with

Conc $NaOH$.



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42. How does acetaldehyde react with Phenyl hydrazine ?



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43. What happens when

Acetone is treated dil. $NaOH$.



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44. What happens when aniline is treated with sodium nitrate and dil. Hydrochloric acid at low temperature ?



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