



CHEMISTRY

BOOKS - MODERN PUBLICATION

TEST PAPER 8

Exercise

1. Vinegar is an aqueous solution of

A. acetic acid

B. benzoic acid

C. citric acid

D. oxalic acid

Answer: A



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2. Elevation in boiling point was $0.52^{\circ}C$ when 6 g. of a compound X was dissolved in 100 g of water. Molecular weight of X is-

A. 120

B. 60

C. 180

D. 240

Answer:



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3. Benzamide reacts with Br_2 and KOH to give:

A. Benzene

B. Benzylamine

C. aniline

D. none of these

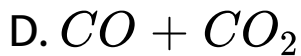
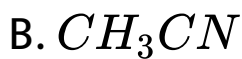
Answer: B



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4. Formic acid is obtained by the hydrolysis of

A. *HCN*



Answer: A



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5. German Silver is an alloy of Copper and:



C. Zn

D. None of these

Answer: A



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6. If the initial concentration of the reactant is doubled, time for half reaction is also doubled. The order of reaction is:

A. Zero

B. First

C. Second

D. Third

Answer: A



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7. Reaction of aniline with HNO_2 followed by treatment with dilute acid gives:

A. $\text{C}_6\text{H}_5\text{NHOH}$

B. C_6H_5OH

C. $C_6H_5NHNH_2$

D. C_6H_6

Answer: B



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8. which type of crystalline solid quartz is?



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9. Out of zero , first and second order reaction which has the same unit for rate of the reaction and rate constant.



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10. Among $[Fe(C_2O_4)_3]^{3-}$, $[Fe(CN)_6]^{3-}$ and $[Fe(NH_3)_6]^{3+}$ which one is most stable ?



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11. What are the monomers of Nylon 6,6?



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12. cell reaction in Daniel cell is a ___ process.



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13. Oxygen gas can be absorbed by ____.



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14. lower $CFSE$ favours formation of ___ spin complex.



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15. why are cross links required in rubber to have practical applications?



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16. What is the difference between Schottky defect and Frenkel defect.



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17. Why is not possible to determine Λ_{∞} for weak electrolyte by the method of extrapolation ?



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18. Define Henry's law about solubility of a gas in a liquid.



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19. Match the following columns

(e) Correctly match I and II.

I

- (i) Steel
- (ii) Brass
- (iii) Malachite
- (iv) Pig iron

II

- (p) An alloy of iron
- (q) Impure iron
- (r) Ore of copper
- (s) Alloy of copper



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20. Complex formation method is used for extraction of ____ .



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21. How does ozone react with $SnCl_2$



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22. What happens when NaI is heated with conc. H_2SO_4 ?



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23. Do the conversion ethyl amine \rightarrow methyl amine.



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24. Why do soaps not work in hard water?



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25. What is the basic structural difference between starch and cellulose ?



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26. Write short notes on Hofmann's bromamide reaction.



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27. How can you distinguish between phenol and benzoic acid?



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28. How can convert benzene to benzoic acid ?



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29. Transition metals form alloys with other transition metals. Explain.



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30. What happens when acetone is treated with iodine in NaOH solution?



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31. What happens when ethyl amine reacts with nitrous acid.



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32. Discuss about clemmensen reduction.



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33. What is T.N.T. ? How is it produced ?



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34. What is meant by the term broad spectrum antibiotics? Explain.



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35. Write notes on : (a) *n* – *type* and *p* – *type* semi conductors.



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36. Differentiate between multimolecular and macromolecular colloids.



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37. Define electrode potential and Nernst equation.



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38. The expression for Raoult's Law containing non volatile solute is –



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39. How would you justify that the relative lowering in vapour pressure is a colligative property?



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40. The vapour pressure of water at 25°C is 23.755 torr and the vapour pressure of a solution containing 5g of solute X in 100 g of water is 23.402 torr. Calculate the molar mass of X .





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41. What is isomerism ?



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42. What is isomerism ? Discuss structural isomerism in coordination compounds with examples.



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43. Give two methods of preparation of aniline



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44. How does aniline react with: (i) CH_3I (ii) CH_3COCl (iii) $NaNO_2/HCl$ (iv) bromine water



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45. Give two methods of preparation of acetaldehyde.



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46. How does acetone react with (i) PCl_5 (ii) C_2H_5OH (iii) $LiAlH_4$



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