



CHEMISTRY

BOOKS - UNITED BOOK HOUSE

MODEL QUESTION PAPER 10

Exercise

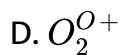
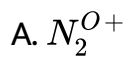
1. Which one is disobeyed in Bohr theory—

- A. Uncertainty principle
- B. exclusion principle
- C. Aufbau principle
- D. Hund rule

Answer:

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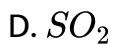
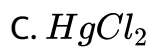
2. Which one isoelectronic with CO-



Answer:

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3. Which one is not linear-



Answer:

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4. If the solubility of $\text{Ag}_2\text{C}_2\text{O}_4$ is S in water, its solubility product is

A. $4S^3$

B. $2S^5$

C. $2S^3$

D. $8S^3$

Answer:

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5. In which case temperature drops down—

- A. Isothermal compression
- B. Isothermal expansion
- C. Adeabatic compression
- D. Adiabatic expansion

Answer:

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6. For an gaseous reaction if $\Delta n = 0$ then which one is correct :

A. $\Delta H + U > 0$

B. $\Delta H > \Delta U$

C. $\Delta H < \Delta U$

D. $\Delta H = \Delta U$

Answer:

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7. Which one is correct for equilibrium constant of a reversible reaction—

A. It depends on initial concentration of reactant

B. It is characteristic index of a reaction

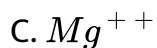
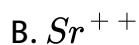
C. depends on the concentration of product at equilibrium

D. Depends on the nature of reactant

Answer:

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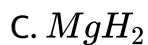
8. Which one can't be identified by flame test:



Answer:

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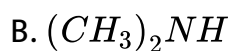
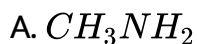
9. In which of the following molecules is hydrogen bridge bond present ?

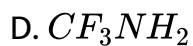


Answer:

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10. Which one is least basic:





Answer:

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11. Hybridisation of Carbocationic Carbon atom—



Answer:

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12. Which one does not show peroxide effect:

A. HF

B. HCl

C. HBr

D. HI

Answer:



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13. The Mercury compound used in oxymercuration reaction—

A. $Hg(OCOCH_3)_2$

B. $Hg(OCOH)_2$

C. $HgCl_2$

D. $HgSO_4$

Answer:



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14. Pyrolysis is a disease of:

A. Heart

B. kidney

C. Lungs

D. skin.

Answer:



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15. No of significant,figure in 0.080200 is?

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16. The emperical formula of glucose is_____.

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17. Give an example of nictogen element.

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18. What is transitional element.

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19. What is the change of entropy in irreversible adiabatic change?

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20. What are the product of ozonolysis of o-xylene?

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21. If 1 kg sugar Costs Rs. 32 find the cost of 1 mole sugar.

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22. Show that normal density = $0.089 \times \text{Vapour density}$.

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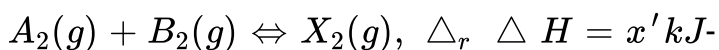
23. Calculate the energy of emr having wave'length $3000\overset{\circ}{\text{A}}$.

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24. If the positional uncertainty of an electron like particle be $5.6 \times 10^{-7} \text{ cm}$. find its uncertainty in velocity.

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25. Which one of the following conditions will favour maximum formation of product in the reaction



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26. Give example of homogeneous & hetrogeneous equilibrium.



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27. Is HCl cause hardness to water? What is the meaning 'Hardness is 300 ppm'?



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28. What is smog? State one harmful effect of N_2O .



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29. What are isodiaphers, Isotone & nuclear isomerism? Give example.



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30. Which one has the highest paramagnetic property and which one has least paramagnetic property give reason Cu^{2+} , Fe^{2+} & Cr^{5+} .

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31. Find the position of the element having atomic number 24. In which block the element comes? State whether its metal or non metal?

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32. What do you mean by Stair step diagonal? State its significance.

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33. If the dipole moment and bond length of HF be 2.0 D and 0.28 \AA then find its percent ionic character. Which one has higher boiling point NH_3 Or PH_3 ?

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34. Explain why the viscosity and boiling point of H_2SO_4 is too high. Write the Characteristics of hydrogen bonding.

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35. What do you mean by surface tension? What is PI? How it is related with Poise?

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36. What do you mean by enthalpy? Show that

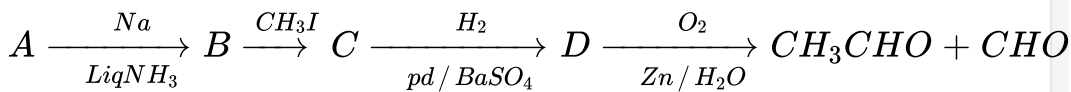
$$\Delta H = \Delta U + \Delta nRT.$$

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37. Define free energy. Comment for its change in a spontaneous reaction.

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38. Identify ABCD:



. Name the alkene ozonolysis of which gives Glyoxal and formaldehyde.

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39. If 4ml O_2 is obtained at 1.5atm pressure and $25^\circ C$ from 1 ml H_2O_2 solution. Then find the volume strength of H_2O_2 solution.

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40. How would you differ chemically Na_2CO_3 & $NaHCO_3$ which alkali metal form nitride directly?

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41. State the conditions of SN^2 reaction? What is I-effect?

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42. What type of equilibrium is this
 $3Fe(s) + (g) f Fe_3O_4(S) 4H_2(g)$ Discuss the effect of

incorporation of inert gas at the homogeneous equilibrium at constant temperature and pressure.

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43. Shall phenolphthalein be used in neutralisation of Na_2CO_3 by HCl ? Why the solubility of $AgCN$ be increased by addition of KCN . What is the sum of pH & pOH of a solution.

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44. Why CO Can't be dried using comes H_2SO_4 ? Give an example of a reaction in which the product formed is a liquid by the reaction for Mond process for the extraction of it.

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45. State reason: Why the radius of Ga is less than that of Al.

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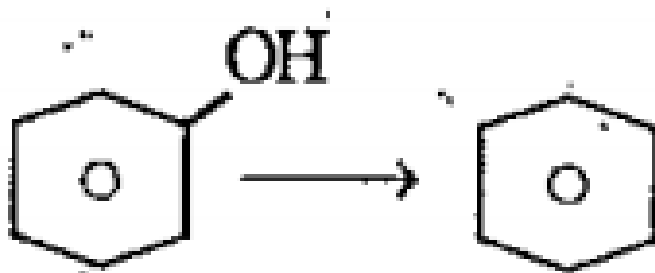
46. State reason: The melting point of Boron is top high. What is Corundum? State one use of it.

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47. How would you differ Chemically between ethane and ethene. What will happen if Benzene is Ozonolysed? What is used in atnimarkownikopt reaction.

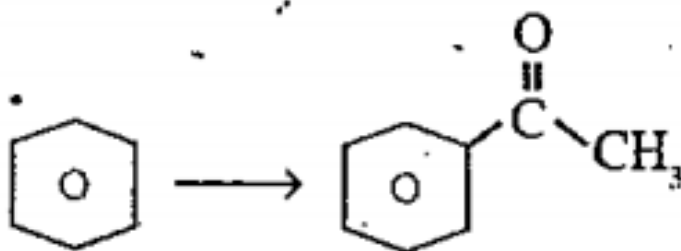
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48. How would you Convert. State one demerits Fredel craft alkylation reaction.:



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49. How would you Convert. State one demerits Fredel craft alkylation reaction.:



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