



CHEMISTRY

BOOKS - UNITED BOOK HOUSE

SET-6

Exercise

1. Magnetic property shown by NaCl:

A. Paramagnetic

B. Diamagnetic

C. Ferromagnetic

D. Anti ferromagnetic

Answer:

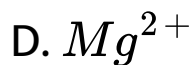


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2. Which one is reducing agent:

A. Ca^{2+}

B. Ni^{2+}



Answer:



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3. Which forms lyophobic sol

A. Starch

B. Gelatine

C. Gold

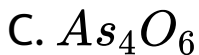
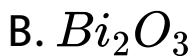
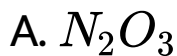
D. Celculose

Answer:



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4. Which one is most acidic.

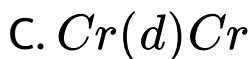
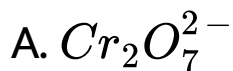


Answer:



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5. In acidic medium CrO_4^{2-} is converted to :



Answer:



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6. No of isomer for MA_2B_2 type coordinated complex compound:

A. 2

B. 3

C. 4

D. 6

Answer:



7. Ethylidene chloride is a/an.

A. Vicinal dihalide

B. Vinyl halide

C. Gem dihalide

D. Allylic halide

Answer:



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8. Alcohol having purity more than 99.9% is called:

- A. Rectified spirit
- B. Superdry alcohol
- C. Absolute alcohol
- D. proof spirit

Answer:



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9. Beta - hydroxy ester is formed in:

- A. Reformatsky reaction
- B. Knoevanagel reaction
- C. HVZ reaction
- D. MPV reduction

Answer:



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10. Source of N_2 in Gabreil thalimide synthesis:

A. $NaNO_3$

B. KCN

C. NaN_3

D. Potassium thalimide

Answer:



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11. Which one is not an essential amino acid.

A. Methiomine

B. threomine

C. Serine

D. valine

Answer:



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12. The catalyst used for the polymerisation of olefine

A. Zeiglar natta

B. Geolite

C. Pd-Catalyst

D. Wilkinson catalyst

Answer:



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13. Which polymer contain nitrogen.

A. PVC

B. Backelite

C. Nylon

D. Terylene

Answer:



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14. Write S.I. unit of specific conductance.



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15. Name one salt which is used in salt bridge.



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16. Give an example of chemistraction.



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17. State an use of dialysis.



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18. What is actinoid? Give example.



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19. What is narcotic analgesic?



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20. Calculate the time required to discharge 5 gm Ca^{2+} ion in cathode when 5 amp current is passed through molten $CaCl_2$. At wt of Ca=40.



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21. What will happen if a Zn rod is dipped into $CuSO_4$ solution?



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22. What is dialysis? What do you mean by protective colloid.



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23. Explain the theory of adsorption.

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24. Why the catenation property of sulphur is greater than oxygen? Explain?

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25. Why NO_2 shows tendency to form N_2O_4 ?

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26. Write the IUPAC names for the to flowing complex: $K_2 [Pd(Cl)_4]$



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27. Write the IUPAC names for the to flowing complex: $[Fe(H_2O)_5NO]SO_4$



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28. What is co-polymerisation? Give two examples.



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29. Find the relation between side length and radius of atom form body centred cubic lattice and also find the packing efficiency for the same packing.



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30. If the density of iron be 7.76 gm/cc and it form body centred cubic lattice then find its side length. A wt of Fe 56.



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31. State Henry's law for the solubility of any gas in a liquid. On what Henry's law constant depends?



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32. What is an ideal solution? Draw the vapour pressure curve for the mixture of two liquids which shows positive deviation from Raoult's law.



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33. Calculate the emf and write the chemical reaction for the cell constructed with $Al | Al^{3+} (0.01M)$ and $Ni | Ni^{2+} (0.2M)$,

$$E_{Ni^{2+} / Ni}^{\circ} = -0.25V \quad E_{Al^{3+} / Al}^{\circ} = -1.66V$$



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34. Calculate the molar conductance of 0.01 (M) KCl solution. Sp. conductance of KCl is $0.07 \text{ cm}^{-1} \text{ ohm}^{-1}$. Define molar conductance?



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35. Give the composition of fools gold .

A. (A) FeS

B. (B) ZnO

C. (C) $ZnCO_3$

D. (D) FeS_2

Answer:



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36. Why Zns can't be roasted? Explain. Why Na, is extracted by electrolysis and mol by carbon reduction?



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37. Why is the atomization energy of transition elements too high? Which one show more number of oxidation states between lanthanoid and actinoid?



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38. Why transition metals forms interstitial compounds? Spin only magnetic moment of Cr^{3+} ion is?



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39. What is S_{N1} reaction? Discuss in the context of the reaction tert butyl chloride
 \xrightarrow{AqKOH} t-butanol.



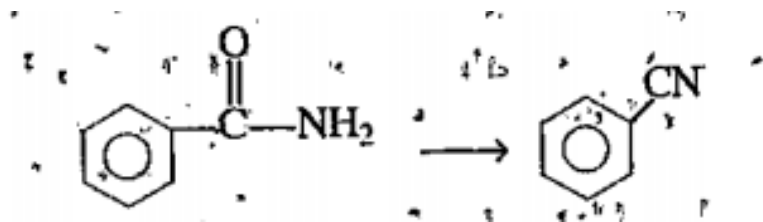
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40. How would you eliminate peroxide from ether. How would you identify phenol?



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41. How would you convert



What is

schiff's base?



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42. How many chiral carbon atom are there in Aldohexose. How many isomers are possible for the same. State one difference between DNA & RNA.



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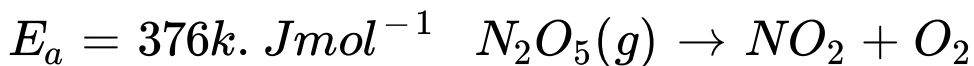
43. What do you mean by temperature coefficient for a reaction? Draw the energy profile diagram for endothermic reaction. What is the role of positive catalyst for a chemical reaction.



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44. If the reaction rate for chemical reaction be $5.4 \times 10^{-4} \text{ s}^{-1}$ at 25° C then at what

temperature it will be $4.2 \times 10^{-2} S^{-1}$? Give



Dissociation of N_2O_5 is a 1st order reaction.



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45. What happens when: H_3PO_2 is added to acidified $KMnO_4$ soln.



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46. What happens when: A mixture of SiO_2 and XeF_6 is heated? Which compound forms philosopher's ring?



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47. How would you convert: Benzoic acid \rightarrow Sulfanilic acid.



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48. How would you convert: Acetylene → Acetone.



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49. What is Rochellies's salt?



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50. How would you distinguish chemically: Acetaldehyde & Acetone.



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51. How would you distinguish chemically:
Carbolic acid & Benzoic acid.



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52. What is phorone?



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