CHEMISTRY

BOOKS - VGS PUBLICATION-BRILLIANT

MODEL PAPER

Section A

1. Define osmotic pressure.

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2. What are antibiotics. Give examples.

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3. What is PHBV ? How is it useful to man ?

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4. A solution of $CuSO_4$ is electrolysed for 10 minutes with a current of 1.5 amperes. What is the mass of copper deposited at the cathode ?

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5. What are food preservatives ? Give examples.

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6. What is Ziegler-Natta catalyst ?

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7. Why does NH_3 act as a Lewis base ?

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8. What is flux ? Give an example.

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9. Which chemical compound is formed in the brown ring test of nitrate ions ?

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10. What is an alloy ? Give example.

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11. Define osmotic pressure.

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12. What are antibiotics?Give example.

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13. What is the difference between a soap and a syntheic detergent?

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14. State Faraday's first law of electrolysis.

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15. Give the composition of the Brass.

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16. Give the composition of the German silver.

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17. List out the uses of Neon.

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18. Explain the structures of

XeF_4

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19. Why Zn^{2+} is diamagnetic whereas Mn^{2+} is paramagnetic ?

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20. What is biodegradable polymer ? Give one example of a biodegradable polyesster ?

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21. Write the name and structure of the monomers used for getting the following polymer

Bakelite

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22. What are the constituent monomers in the following polymers? Write their uses.

(a) Nylon 6,6 and (b) Terylene.

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23. State Henry's law.

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24. What are pseudo first order reactions ? Give one example.

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25. What is the role of cryolite in the metallurgy of aluminium?

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26. A mixture of $\mathrm{Ca_3P_2}$ and $\mathrm{CaC_2}$ is used in making Holme's signal - Explain.

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27. Explain the structure of XeO_3.

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28. Aqueous Cu^{2+} ions are blue in colour, where as Aqueous Zn^{2+} ions are colourless.

Why ?

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29. What are antacids?Give example.

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30. What are artificail sweerening agents?Give example.

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31. What are ambident nucleophiles ?

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32. What are Enantiomers ?

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33. What is PHBV ? How is it useful to man ?

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34. Write the name and structure of the monomers used for getting the following polymer

Bakelite

Watch Video Solution

35. Write the names of monomers of the following polymers:

Terylene

Watch Video Solution

36. Define osmotic pressure.

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37. State Faraday's first law of electrolysis.

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38. What is poling?

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39. A mixture of Ca_3P_2 and CaC_2 is used in making Holme's signal - Explain.

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40. In modern diving apparatus, a mixture of He and O_2 is used - Why ?

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41. Calculate the magnetic moment of a divalent ion in aqueous solution if its atomic number is 25

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42. What are artificail sweerening agents?Give example.

Watch Video Solution

43. What are antibiotics?Give example.

Watch Video Solution

44. Define osmotic pressure.

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45. What is the shape of berilium dichloride?

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46. What is horn silver? which metal is present in this?

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47. Draw the structure of the following compounds:

BF_3

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48. Draw the structure of the following compounds:

PCl_5

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49. How is bleaching powder prepared ?

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50. What is the formula of geleena?

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51. Write examples for non benzenoid aromatic compounds?

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52. Write the structures of the following compounds :

2 - Chloro-3-methyl pentane

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53. Write the structures of the following compounds :

1,4 - Dibromobut-2-ene

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54. Write the structure of 3-ethyl-4-methyl hexane?

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55. Write the structure of hexa-4-ene-1yne?

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56. What are isotonic solutions ?

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57. What is metallie corrosion ? Give one example.

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58. Explain "Poling".

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59. What happens when white phosphorus is heated with conc. NaOH solution in an inert atmosphere of CO_2 ?

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60. $K_4\left[Fe(CN)_6\right]$ is a

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61. Using IUPAC norms, write the systematic names of the $\left[Co(NH_3)_6\right]Cl_3$

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62. What are antiseptics ? Give examples.

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63. What are artificail sweerening agents?Give example.

Watch Video Solution

64. What is tailing of mercury? How is it removed ?

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65. Explain Wurtz - Fitting reaction

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66. Write the structures of the following compounds :

2 - Chloro-3-methyl pentane

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67. Write the structures of the following organic halides .

p-bromochlorobenzene ,

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Section B

1. Derive Bragg's equation .

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2. What is catalysis ? How is catalysis classified ? Give two examples for each type of catalysis.

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3. Explain the following given examples.

Colloid

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4. What is the definition of acid according to Bronsted?

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5. Define mole fraction.

Watch Video Solution

6. Calculate the molarity of a solution containing 10g of NaOH in 500 ml of solution.

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7. How are XeF_2 and XeF_4 prepared ? Give their structures.

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8. Explain Werner's theory. Give the Werner's structures of $CoCl_3.6NH_3, CoCl_3.5NH_3, CoCl_3.4NH_3$ and $CoCl_3.3NH_3$.

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9. Give one example for corm.

Watch Video Solution

10. What are Hormones ? Give one example for steroid hormones and polypeptide hormones.

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11. What are Hormones ? Give one example for each.

i) Steroid Hormones

ii) Polypeptide Hormones

iii) Amino Acid derivatives.

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12. Explain Wurtz - Fitting reaction

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13. Write equations of the following reactions:

(i) Friedel-Crafts reaction – alkylation of anisole.

(ii) Nitration of anisole.

(iii) Bromination of anisole in ethanoic acid medium.

(iv) Friedel-Craft's acetylation of anisole.

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14. What is the formula of carnallite?

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15. Explain the purification of sulphide ore by Froth Floatation Method.

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16. The vapour pressure of pure benzene at a certain temperature is 0.850 bar. A non-volatile, non-electrolyte solid weighing 0.5g when added to 39.0 g of benzene (molar mass 78 g mol^{-1}), vapour pressure of the solution, then, is 0.845 bar. What is the molar mass of the solid substance ?

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17. Describe the purification of colloidal solution by the phenomenon of dialysis with a neat diagram.

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18. Write equations for the reaction of acetic acid with reagent :

NaOH

Watch Video Solution

19. How is chlorine obtained in the laboratory ? How does it react with the following ?

excess NH_3

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20. Write the equations for.reactions of chlorine with the following :

$Ca(OH)_2$

Watch Video Solution

21. How is chlorine prepared in the laboratory ? How does it react with the following ?

$Na_2S_2O_3$

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22. Explain the applications of Co-ordination compounds in different fields.

Watch Video Solution

23. What are Hormones ? Give one example for each.

i) Steroid Hormones

ii) Polypeptide Hormones

iii) Amino Acid derivatives.

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24. What are Hormones ? Give one example for steroid hormones and polypeptide hormones.

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i) Steroid Hormones

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iii) Amino Acid derivatives.

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26. Explain sp^2 hybridization with an example.

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27. Derive Bragg's equation .

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28. Calculate the mole fraction of H_2SO_4 in a solution containing $98\ \%\ H_2SO_4$ by mass.

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29. What is catalysis ? How is catalysis classified ? Give two examples for each type of

catalysis.

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30. Give examples to differentiate roasting and calcination.

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31. Explain ionic bond with suitable example.

Watch Video Solution

32. Write the names and structures of the monomers of the following polymers.

i)Buna -S ii)Buna -N iii) Dacron iv)Neoprene

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33. What are Hormones ? Give one example for each.

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ii) Polypeptide Hormones

iii) Amino Acid derivatives.

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35. What are Hormones ? Give one example for each.

i) Steroid Hormones

ii) Polypeptide Hormones

iii) Amino Acid derivatives.

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36. How do you prepare Ethyl cyanide and Ethyl isocyanide from a common alkylhalide ?

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37. Derive Bragg's equation .

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38. The vapour pressure of pure benzene at a certain temperature is 0.850 bar. A non-volatile, non-electrolyte solid weighing 0.5g when added to 39.0 g of benzene (molar mass 78 g mol^{-1}), vapour pressure of the solution, then, is 0.845 bar. What is the molar mass of the solid substance ?

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39. What is catalysis ? How is catalysis classified ? Give two examples for each type of catalysis.

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40. Give examples to differentiate roasting and calcination.

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41. What is Misch metal ? Given its composition and use.

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42. What is an ambidentatc ligand ? Give example.

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43. Give the sources of the following vitamin and name the diseases caused by their deficiency (a) A (b) D (c) E and (d) K

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44. What are Enantiomers ?

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45. What is racemisation ?

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46. Name reactions :

Carbylamine reaction.

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47. Explain the following name reactions :

Sandmeyer reaction

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48. Define molarity Calculate the molarity of a solution containing 5g of NaOH in 450 ml of solution.

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49. Which metal is present in cinnabar ore?

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50. Which metal is present in Pyrolusite ore?

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51. Define Adsorption. ,Discuss the differences between physical adsorption and chemical adsorption.

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52. Explain the purification of sulphide ore by Froth Floatation Method.

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53. What is Stereoisomerism ? Explain the geometrical' isomerism in coordinationi compounds with suitable example.

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54. Write the formula and structure of Hyposulphurous acid?

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55. Give the sources of the following vitamin and name the diseases caused by their deficiency (a) A (b) D (c) E and (d) K

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56. What are analgesics ? How are they classified ?

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57. Derive Bragg's equation .

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58. Calculate molecular mass of glucose $(C_6H_{12}O_6)$ molecule.

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59. A solution of $CuSO_4$ is electrolysed for 10 minutes with a current of 1.5 amperes. What is

the mass of copper deposited at the cathode ?

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60. Explain the purification of sulphide ore by Froth Floatation Method.

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61. Write the characteristic properties of transition elements.

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62. IUPAC names of monomers in Nylon-6,6 are

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63. Write the name and structure of the monomers used for getting the following polymer

Polystyrene

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64. Write the name and structure of the monomers used for getting the following polymer

Bakelite

Watch Video Solution

65. write the name and structures of the monomers used for getting the following polymers

i)Polyvinyl ii)Teflon iii)Bakelite iv) Polystyrene.

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66. Explain the following name reactions :

Sandmeyer reaction

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67. Explain the following name reactions :

Gatterman reaction

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68. Give the sources of the following vitamin and name the diseases caused by their deficiency (a) A (b) D (c) E and (d) K

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Section A

1. What is Ebullioscopic constant ?

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2. What is a galvanic cell or a valtaic cell ? Give one example.

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3. Why Zn^{2+} is diamagnetic whereas Mn^{2+} is paramagnetic ?

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4. What is PHBV ? How is it useful to man ?

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5. What is vulcanization of rubber ?

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6. What is matte? Give its Composition.

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7. Give an example of

acidic oxide of phosphorus

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8. Give an example of

neutral oxide of nitrogen.

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9. What is tailing of mercury? How is it removed ?

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16. What are food preservatives ? Give examples.

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17. Give the composition of the Brass.

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18. Give the composition of the German silver.

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19. What is a primary battery ? Give one example.

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20. How is chlorine manufactured by Deacon's method ?

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21. What happens when Cl_2 reacts with dry slaked lime ?

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22. Calculate the 'spin only' magnetic moment of Fe_{aq}^{2+} ion.

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23. What are isotonic solutions ?

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24. What is Schottky defect ?

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25. Calculate the 'spin only' magnetic moment of Fe_{aq}^{2+} ion.

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26. Aqueous NaOH solution is labelled as 10% by weight mole fraction of the solute in it is

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27. How is Gibbs energy (G) related to the cell emf (E) mathematically ?

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28. What is the role of cryolite in the metallurgy of aluminium?

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29. How do you distinguish between crystal lattice and unit cell ?

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30. What is PHBV ? How is it useful to man ?

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31. Write the name and structure of the monomers used for getting the following polymer

Bakelite

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32. What are the constituent monomers in the following polymers? Write their uses.

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33. Write the isomers of the compound having molecular formula C_4H_9Br .

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34. Ethane to bromoethene

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35. State Henry's law.

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36. What are isotonic solutions ?

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37. State Faraday's first law of electrolysis.

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38. Give two uses of aluminium .

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39. Explain the reactions of aluminium with acids.

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40. Explain the reactions of Cl_2 with NaOH.

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41. In modern diving apparatus, a mixture of He and O_2 is used - Why ?

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42. Helium is heavier than hydrogen. Yet helium is used (instead of H_2) in filling baloons for meteorological observations - Why ?

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43. Why Zn^{2+} is diamagnetic whereas Mn^{2+} is paramagnetic ?

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44. Write the isomers of the compound having molecular formula C_4H_9Br .

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45. Explain why the dipole moment of chlorobenzene is lower than that of cyclohexychloride .

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46. How do you convert aniline to parabromo aniline.

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47. Write the chemical reaction of aniline with benzoyl chloride and write the name of the product obtained.

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48. What is an ideal solution ?

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49. Write the Arrhenius equation for the rate constant (k) of a reaction.

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50. Give the composition of the Bronze.

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51. Give the composition of the Bronze.

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52. How is $\mathrm{XeOF_4}$ prepared ? Describe its molecular shape.

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53. Write the reactions of F_2 and Cl_2 with water.

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54. Scandium is a transition element. But Zinc is not. Why ?

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55. What is PDI (Poly Dispersity Index) ?

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56. What is allosteric site?

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57. What are antacids?Give example.

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58. Write the name and structure of the monomers used for getting the following polymer

Polyvinyl chloride

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59. Write the name and structure of the monomers used for getting the following polymer

Teflon

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Section B

1. What are n-type and p-type semiconductors?

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2. Calculate molality of 2.5 of ethanoic acid (CH_3COOH) in 75g of benzene.

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3. Explain the structure of TMV.

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4. Explain Werner's theory. Give the Werner's structures of

$CoCl_3.6NH_3, CoCl_3.5NH_3, CoCl_3.4NH_3$ and $CoCl_3.3NH_3$.

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5. Give the sources of the following vitamin and name the diseases caused by their deficiency (a) A (b) D (c) E and (d) K

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6. Explain froth flotation process with neat diagram.

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7. Explain Tyndall effect and Brownian movement.

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8. Explain sp^2 hybridization with an example.

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9. Calculate the mole fraction of H_2SO_4 in a solution containing $98\ \%\ H_2SO_4$ by mass.

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10. Derive Bragg's equation .

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11. What are emulsion ? How are they classified ? Describe the applications of emulsions.

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12. Explain the purification of sulphide ore by Froth Floatation Method.

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13. Give the sources of the following vitamin and name the diseases caused by their deficiency (a) A (b) D (c) E and (d) K

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14. Explain ionic bond with suitable example.

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15. How are XeF_2 and XeF_4 prepared ? Give their structures.

Watch Video Solution

16. Explain the following name reactions :

Sandmeyer reaction

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17. Explain the following name reactions :

Gatterman reaction

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18. Calculate the vapour pressure of a solution containing 9g of glucose in 162g of water at 293K. The vapour pressure of water of 293K is 17.535mm Hg.

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19. What are the types of systems? Explain give one example each?

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20. Give examples to differentiate roasting and calcination.

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21. Explain the structures of

XeF_4

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22. Explain the structures of

$XeOF_4$

Watch Video Solution

23. Explain ionic bond with suitable example.

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24. Give the sources of the following vitamin and name the diseases caused by their deficiency (a) A (b) D (c) E and (d) K

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25. Write short notes on Analgesics

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26. Write the defination of binary solution?

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27. Explain the following name reactions :

Sandmeyer reaction

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28. (A): Isocyanides are prepared by carbylamine reaction.

(R) : Carbylamine on reduction always gives 2^0 amines.

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29. Derive Bragg's equation .

Watch Video Solution

30. How is molar mass related to the elevation in boiling point of a solution ?

Watch Video Solution

31. Calculate the mole fraction of H_2SO_4 in a solution containing $98\,\%$ H_2SO_4 by mass.

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32. Write any four differences between physical adsorption and chemical adsorption.

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33. Zone refining is based on

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34. Which of the following is true about the electrolytic refining of metals ?

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35. What is Lanthanoid contraction ?

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36. Explain the purpose if vulcanization of rubber .

Watch Video Solution

37. Explain the difference between natural rubber and synthetic rubber .

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38. Write notes on vitamins.

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39. A broad spectrum antibiotic is

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40. What are antibiotics?Give example.

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Section C

1. Give a detailed account of the Collision theory of reaction rates of biomolecular reaction.

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2. Explain the reactions of Cl_2 with NaOH.

Watch Video Solution

3. Explain the reactions of Cl_2 with NaOH.

Watch Video Solution

4. How is chlorine obtained in the laboratory ?

How does it react with the following ?

excess NH_3

Watch Video Solution

5. Name Reactions :

Kolbe's reaction

Watch Video Solution

6. Write the equations involved in the following reactions:

(i) Reimer - Tiemann reaction (ii) Kolbe's reaction

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7. With a suitable example write equations for the Williamson's ether synthesis

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8. Explain the terms aerosol with suitable examples.

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9. How is nitric acid manufactured by Ostwald's process ?

Watch Video Solution

10. How is ozone prepared from oxygen ? Explain its reaction

i) C_2H_4 ii) KI ii) Hg iv) PbS

Watch Video Solution

11. Give a detailed account of the Collision theory of reaction rates of biomolecular reaction.

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12. Explain the acidic nature of phenols and compare with that of alcohols.

Watch Video Solution

13. With a suitable example write equations for the Kolbe's reaction.

Watch Video Solution

14. With a suitable example write equations for the Reimer-Tiemann reaction.

Watch Video Solution

15. State and explain Kohlrausch's law of indendent migration of ions.

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16. What is Zero Order reaction ?

Watch Video Solution

17. How is ozone prepared ? How does it react with the following ?

KI

Watch Video Solution

18. Write balanced equations for the folliowing.

NaCl is heated with $\mathrm{Conc.H_2}SO_4$ in the presence of MnO_2.

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19. Write balanced equations for the folliowing.

Chlorine is passed into a solution of NaI in water.

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20. Describe the Cannizaro reaction

Watch Video Solution

21. Describe the following:

(i) Acetylation

(ii) Cannizzaro reaction

(iii) Cross aldol condensation

(iv) Decarboxylation

Watch Video Solution

22. Explain the acidic nature of phenols and compare with that of alcohols.

Watch Video Solution

23. Give a detailed account of the Collision theory of reaction rates of biomolecular reaction.

Watch Video Solution

24. What is Half life of a reaction ?

Watch Video Solution

25. How is chlorine prepared by electrolytic method ? Explain its reaction with NaOH

Watch Video Solution

26. How is chlorine prepared by electrolytic method ? Explain its reaction with NaOH

Watch Video Solution

27. How is chlorine prepared by electrolytic method ? Explain its reaction with NH_3 under different conditions.

Watch Video Solution

28. Describe the following:

(i) Acetylation

(ii) Cannizzaro reaction

(iii) Cross aldol condensation

(iv) Decarboxylation

Watch Video Solution

29. Describe the Cannizaro reaction

Watch Video Solution

30. Discuss aldol condensation.

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31. Describe the following:

(i) Acetylation

(ii) Cannizzaro reaction

(iii) Cross aldol condensation

(iv) Decarboxylation

Watch Video Solution

Section B

1. Derive Bragg's equation .

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2. Calculate the mole fraction of ethylene glycol $(C_2H_6O_2)$ in a solution containing $20\ \%$ of $C_2H_6O_2$ by mass.

Watch Video Solution

3. How emulsions are classified ? Give one example for each type of emulsion.

Watch Video Solution

4. Explain the following :

Zone refining

Watch Video Solution

5. Explain the following :

Poling.

Watch Video Solution

6. How is ammonia manufactured by Haber's process ? Explain the reactions of ammonia with

$CuSO_{4(aq)}$

Watch Video Solution

7. Explain geometrical isomerism in Co-ordination compounds giving suitable

examples.

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8. give the sources of the vitamin and name the disease caused by it dificiency.

A

Watch Video Solution

9. Give the sources of the following vitamin and name the diseases caused by their

deficiency (a) A (b) D (c) E and (d) K

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10. Give the sources of the following vitamins and name the disease caused by their dificiency.

E

Watch Video Solution

11. Give the sources of the following vitamins and name the disease caused by their dificiency.

K

Watch Video Solution

12. Explain the Grignard reagents preparation and application with suitable example.

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Section C

1. Give a detailed account of the Collision theory of reaction rates of biomolecular reaction.

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2. How does ozone react with Ethylene ?

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3. How does ozone react with Ethylene ?

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4. How is ozone prepared ? How does it react with the following ?

Ag

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5. How is ozone prepared ? How does it react with the following ?

Hg

Watch Video Solution

6. How is chlorine prepared in the laboratory ?

How does it react with the following ?

hot, conc. NaOH

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7. With a suitable example write equations for the Williamson's ether synthesis

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8. With a suitable example write equations for the Reimer-Tiemann reaction

Watch Video Solution

9. Explain the following reactions with suitable examples :

Carbyl amine reaction

Watch Video Solution

10. Explain the following reactions with suitable examples :

Diazotization

Watch Video Solution

11. What are galvanic cells ? Explain the woriking of a galvanic cell with a neat sketch taking Denicell cell as example.

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12. Write the difference between Order and Molecularity of a reaction.

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13. How is ammonia manufactured by Haber's process ? Explain the reactions of ammonia with

$AgCl_{(s)}$

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14. How is ozone prepared ? How does it react with the following ?

PbS

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15. How is chlorine obtained in the laboratory ? How does it react with the following ?

KI

Watch Video Solution

16. How does ozone react with Ethylene ?

Watch Video Solution

17. How does ozone react with the following:

NO

Watch Video Solution

18. Write the equations involved in the following reactions:

(i) Reimer - Tiemann reaction (ii) Kolbe's reaction

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19. Describe the Cannizaro reaction

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20. Explain crossed aldol condensation with suitable examples

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21. Explain the following name reactions :

Sandmeyer reaction

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22. State and explain Kohlrausch's law of indendent migration of ions.

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23. What is "molecularity" of a reaction ? How is it different from the 'order' of a reaction? Name one bimolecular and one trimolecular gaseous reactions.

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24. How is ozone prepared ? How does it react with the following ?

PbS

Watch Video Solution

25. How is ozone prepared ? How does it react with the following ?

KI

Watch Video Solution

26. How is ozone prepared ? How does it react with the following ?

Hg

Watch Video Solution

27. How is ozone prepared ? How does it react with the following ?

Ag

Watch Video Solution

28. How can you prepare Cl_2 from HCl and HCl from Cl_2 ? Write the reactions.

Watch Video Solution

29. Write the equations involved in the following reactions:

(i) Reimer - Tiemann reaction (ii) Kolbe's reaction

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30. Explain the following reactions.

Williamson's Ether Synthesis Aldol condensation

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31. Discuss aldol condensation.

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32. Describe the Decarboxylation .

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33. Give a detailed account of the Collision theory of reaction rates of biomolecular

reaction.

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34. How is chlorine prepared by electrolytic method ? Explain its reaction with NaOH

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35. How is chlorine prepared by electrolytic method ? Explain its reaction with

NaOH

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36. How is ozone prepared ? How does it react with the following ?

PbS

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39. How does ozone react with the following:

NO

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40. Write the equations involved in the following reactions:

(i) Reimer - Tiemann reaction (ii) Kolbe's reaction

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41. Explain the following reactions :

Williamson synthesis

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42. Describe the following:

Cannizaro reaction

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43. Describe the following:

Dehydrogenation of alcohols

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44. The standard emf of Deniell cell is 1.1 V. Calculate the standard Gibbs energy for the cell reactions:

$$Zn_{(s)} + Cu^{2+}_{(aq)} \rightarrow Zn^{2+}_{(aq)} + Cu_{(s)}$$

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45. How are XeF_2 and XeF_4 prepared ? Give their structures.

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46. Explain Wurtz reaction with one example.

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47. Explain Wurtz reaction with one example.

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48. Write the equations involved in the following reactions:

(i) Reimer - Tiemann reaction (ii) Kolbe's reaction

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49. Explain Wurtz reaction with one example.

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50. State and explain Kohlrausch's law of indendent migration of ions.

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51. What are different types of adsorption ? Give any four differences between characteristics of these different types.

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52. How is chlorine prepared by electrolytic method ? Explain its reaction with NaOH

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53. How is chlorine prepared by electrolytic method ? Explain its reaction with NaOH

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54. How is chlorine prepared by electrolytic method ? Explain its reaction with NaOH

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55. Explain the structures of

XeF_2

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56. Write the equations involved in the following reactions:

(i) Reimer - Tiemann reaction (ii) Kolbe's reaction

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57. Explain the following reactions.

Williamson's Ether Synthesis Aldol condensation

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58. Discuss aldol condensation.

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59. Describe the following:

(i) Acetylation

(ii) Cannizzaro reaction

(iii) Cross aldol condensation

(iv) Decarboxylation

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60. State and explain Kohlrausch's law of indendent migration of ions.

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61. What is "molecularity" of a reaction ? How is it different from the 'order' of a reaction? Name one bimolecular and one trimolecular gaseous reactions.

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62. How is ozone prepared from oxygen ? Explain its reaction with

C_2H_4

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63. How is ozone prepared from oxygen ? Explain its reaction with

KI

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64. How is ozone prepared from oxygen ? Explain its reaction with

Hg

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65. How is ozone prepared from oxygen ? Explain its reaction with

PbS.

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66. Describe the following:

Cannizaro reaction

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67. Describe the following:

(i) Acetylation

(ii) Cannizzaro reaction

(iii) Cross aldol condensation

(iv) Decarboxylation

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68. How do you prepare Ethyl cyanide and Ethyl isocyanide from a common alkylhalide ?

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