A Valuable material from SS PRITHVI's

માં આવા છે. આ માત્ર માત્ર

Class 12



2023-24



Think Question Papers, Think Priteducation!

JOIN OUR TELEGRAM CHANNEL FOR MORE MATERIALS: CLICK HERE

BLASTER PDF

CLASSIFICATION OF QUESTIONS

SUBJECT:



UPDATED ON: 17/12/2023, 8:13 AM

JOIN OUR TELEGRAM CHANNEL FOR MORE MATERIALS: CLICK THIS



ANSWER THE FOLLOWING [WH.]QUESTIONS

- 1.What is inert pair effect?
- 2 What is auto oxidation?
- 3. What is Calcination?
- 4. What is Inter halogen compounds
- 5. What is Holmes signal?
- 6. What is Interstitial compounds?
- 7. What is Linkage Isomers?
- 8. What is Ionisation Isomers?
- 9. What is Hydrated Isomers?63
- 10. What is Co-ordination isomers?
- 11. What is Crystal field splitting energy? 53
- 12. What is Coordination number? What is the co-ordination number of atoms in BCC?
- 13. What is Impurity defect?
- 14. What is radius ratio and its uses?
- 15. What is Packing efficiency?"
- 16. What is Molecular solids and it's types?
- 17. What is Activation energy?
- 18. What is Pseudo first order reaction?
- 19. What is Common ion effect?
- 20. What is Buffer capacity?
- 21. What is Corrosion?
- 22. What is Molar conductivity?
- 23. What is Equivalent conductance?
- 24. What is Colloids and examples?
- 25. What is Promoters and catalyst poison?
- 26. What is Active centres?
- 27. What is Tyndall effect?
- 28. What is Brownian motion?
- 29. What is Tanning of leather?
- 30. What is Ultrafiltration?
- 31. What is Crystal Field Stabilization Energy CFSE
- 32. What is Cathodic Protection?
- 33. What is Electrophoresis?
- 34. What is Electro osmosis?
- 35. What is Cogulation (or) Precipitation and types?
- 36. What is Freundlish adsorption isotherm?



- 37. What is Saponification?
- 38. What is Anomers?
- 39. What is Mutarotation?
- 40. What is Epimers and example?
- 41. What is Invert sugar?
- 42. What is Peptide bond?
- 43. What is Zwitter ion?
- 44. What is Denaturation of proteins?
- 45. What is vulcanization of rubber?
- 46. What is Analgesics and examples?
- 47. What is Opioids and examples?
- 48. What is Anaesthetics and example?
- 49. What is Antacids and examples?
- 50. What is Anti histamines and examples?
- 51. What is Antiseptic and examples?
- **52. What is Antimicrobials and examples?**
- 53. What is Desandevtants and example
- 54. What is Preservatives and example?
- 55. What is Antifertility drugs and examples?
- 56. What is Antioxidants and example?
- 57. What is Sugar Substituents and example?
- 58. What is Artificial sweeting agents?
- 59. What is Total Fatty Matters Value?
- 60. What is Differtiate the 1' Primary, 2" Secondary, 3" Tertiary amines?
- 61. What is Solubility product?
- 62. What is ionization of water at room temperature value?
- 63. What is Pet scale?
- 64. What is Conjucate acid-base pair?
- 65. What is Arrheruus concept of acid-base?
- 66. What is Arrhenius equation?
- 67. What is Bragg's equation?
- 68. What is Debye Huckel and onsagar equation?
- 69. What is Hormones?
- 70 What is the classification of hormones based on the site of action?

FOR MORE FANTASTIC MATERIALS JOIN WHATSAPP CHANNEL: CLICK HERE

SS PRITHVI

PRIT-EDUCATION



APPLICATIONS / USES

- 71. Applications of Aluminium
- 72. Applications of Zinc.
- 73. Applications of Gold
- 74. Applications of Iron
- 75. Applications of Copper.
- 76. Uses of Aluminium
- 77. Uses of Helium
- 78. Uses of Neon
- 79. Uses of Argon
- 80. Uses of Chlorin
- 81. Uses of K2Cr2O7 and KMnO4
- 82. Uses of Silicones
- 83. Uses of Glycerol
- 84. Uses of Ethanol.
- 85. Uses of Di-ethyl ether.
- 86. Uses of 40% Formaldehyde (Formalin).
- 87. Uses of Formic acid.
- 88. Uses of Nitro Alkanes.
- 89. Medicinal uses of colloids.
- 90. Medicinal uses of co-ordination compounds.
- 91. Applications of adsorptions.
- 92. Uses of Kohlraush's law.
- 93. Uses of Phenol.
- 94. Uses of Diboranes.

DIFFERENTIATE / DISTINCTION

- 95. Differentiate between minerals and ores.
- 96. Differentiate between lanthanoids and actinoids.
- 97. Differentiate between double salts and co-ordination compounds.
- 98. Differentiate between crystalline and amorphous solids.
- 99. Differentiate between tetrahedral voids and octahedral voids.
- 100. Differentiate between rate of the reaction and rate constant of the reaction.
- 101. Distinction the order of the reaction and molecularity of a reaction.
- 102. Differences between Lewis acids and Lewis bases.
- 103. Deferences between Physical and Chemical adsorption.

SS PRITHVI



- 104. Differences between Homogeneous catalysis and heterogeneous catalysis
- 105. Differences between DNA and RNA.
- 106. Differences between Hormones and Vitamines.
- 107. Differences between Disinfectents and Antiseptics
- 108. Differences between Glucose and Fructose.

PRINCIPLE / THEORY

- 109. Define the Postulates of Werners theory.
- 110. Define the Valence Bond theory.
- 111. Define the Crystal Field theory
- 112. Define Collision theory.
- 113. Define the Acid-Base theories.
- 114. Define the Intermediate compound formation theory.
- 115. Define Adsorption theory.
- 116. Explain Mond's process for refining nickel.
- 117. Explain Zone Refining.

EXPLAIN

- 118. Explain Electrochemical extraction of aluminium.
- 119. Explain the structure of Di Borane.
- 120. Explain the types of silicones and structure.
- 121. Explain the types of silicates and structure.
- 122. Explain Electrolytic refining.
- 123. Explain the structure of Graphite and Diamond.
- 124. Explain the structure of zeolites.
- 125. Explain Schottky, Frenkel, Metal Excess, Metal Deficiency defects.
- 126. Explain the types of molecular solids.
- 127. Explain the factors affecting the reaction rate.
- 128. Explain Daniel cell.
- 129. Explain Leclanche cell
- 130. Explain the lead storage battery.
- 131. Explain consequences of Lanthanoid contraction.
- 132. Explain the Mercury button cell.
- 133. Explain the Lithium-lon battery.
- 134. Explain the Fuel cell (H2-O2)
- 135. Explain the Protection of metals from corrosion.



- **136.** Explain Factors affecting electrolytic conductance.
- 137. Explain Factors affecting adsorption.
- 138. Explain Saytzeff's Rule with example.
- 139. Explain the Crossed aldol condensation with mechanism.
- 140. Explain the Mechanism of cannizaro reaction.
- 141. Explain the Esterification reaction with mechanism.
- 142. Explain the Cleansing action of soap.
- 143. Explain the structure of Glucose.
- 144. Explain the structure of Fructose.
- 146. Explain the Peptide Bond formation with example.
- 147. Explain the reduction reactions of nitro benzene.

EQUATIONS/DERIVATIONS

- 148. Equations of Integrated Rate law for zero order reaction and calculate the Half life period.
- 149. Equations of Integrated Rate law of First order reaction and Calculate the Half life period.
- 150. Equations of Ostwald's Dilution law.
- 151. Equations of Henderson Hassel beich
- 152 Explain the Nernst equation
- 153. Relation between PH and poH
- 154. Relation between delta G, E and K equilibrium.

PROPERTIES/CHARACTERISTICS

- 155. Properties of silicones.
- 156. Properties of Inter Halogen Compounds.
- 157. Characteristic of Ionic crystals
- 158. Characteristic of Catalyst.
- 159. Ostwald dilution law.

FOR MORE FANTASTIC MATERIALS JOIN WHATSAPP CHANNEL: CLICK HERE

SS PRITHVI



LAWS AND CONCEPTS

- 160. Faraday's First law.
- 161. Faraday's Second law.
- 162 Kohlraush's law.
- 163. Saytzeff's rule.
- 164. Popoff's rule.

LIMITATIONS/DISADVANTAGES

- 165. Limitations of Ellingham diagram.
- 166. Limitations of VB theory.
- 167. Limitations of Arrhenius concept
- 168. Limitations of Freundlish adsorption (concept) isotherm
- 169. Swem-oxidation

ORGANIC CHEMISTRY-NAMING REACTIONS

- 170. Dow's process.
- 171. Schotten Baumann reaction
- 172. Williamson Ether synthesis.
- 173. Kolbe's reaction.
- 174. Riemer-Tiemann reaction
- 175. Coupling reaction.
- 176. Rosenmund Reduction.
- 177. Stephen's Reaction.
- 178. Gattermann Koch reaction.
- 179. Etard reaction
- 180. Friedel Crafts Acylation.
- 181. Friedel Crafts Benzylation.
- 182. Clemmensen reduction
- 183. Wolf-Kishner reduction.
- 184. Haloform reaction.
- 185. Claisen-Schmidt condensation.
- 186. Benzoin condensation.
- 187. Perkin's reaction.
- 188. Knoevenagal reaction.



- 189. HVZ-reaction
- 190. Hoff mann's degradation reaction
- 191. Gabriel Phthalimide synthesis.
- 192. Scotten-Baumann reaction in Aniline.
- 193. Carbylamine reaction.
- 194. Mustard oil reaction.
- 195. Sandmeyer reaction.
- 196.Gatfermant reaction
- 197.Crossed aldol condensation reactions
- 198. Crossed Cannizaro reaction
- 199. McAfee process.
- 200. Preparation of hydroboration

PREPARATION REACTIONS

- 201. Preparation of Phosphine (Pi) in laboratory method
- 202. Preparation of Phosphoric acid
- 203. Preparation of H2SO4 in contact process
- 204. Preparation of K2Cr2O7
- 205. Preparation of KMnO4
- 206. Preparation of Colloids by chemical method
- 207. Mechanical Dispersion
- 208. Esterification reaction
- 209. Preparation of Urotropine.
- 210. Trans Esterification reaction.
- 211. Preparation of Nylon-66 and uses
- 212. Preparation of Nylon-6 and uses
- 213. Preparation of Nylon-2, Nylon-6.
- 214. Preparation of Terylene (Decron).
- 215. Preparation of iA 5
- 216. Preparation of BUNA-N
- 217. Preparation of PHBV
- 218. Preparation of HDPE and LDPF, uses
- 219. Preparation of Bakelite.
- 220. Preparation of Melamine.
- 221. Preparation of Teflon.

FOR MORE FANTASTIC MATERIALS JOIN WHATSAPP CHANNEL: CLICK HERE

SS PRITHVI

PRIT-EDUCATION



TESTS / ESTIMATIONS

- 222. How will you Indentify Borate Radical
- 223. Test for Sulphate and Sulphuric acid.
- 224. Chromyl Chloride Test.
- 225. Test for Colloids.
- 226. Give one test to differentiate [CO(NH3)5CT]SO4 and [CO(NH3)5SO4]
- 227. Test for Carboxylic acid.
- 228. Lucas Test.
- 229. Victor-Meyer Test.
- 230. Ni 2+ is identified using alcoholic solution of dimethyl glyoxime
- 231. Give the test to differentiate Phenols and Alcohols.
- 232. Test for Aldehyde.
- 233. Test for Primary Amines.

REASONING QUESTIONS

- 234. Write a note on anamolous properties of the first elements of P-block
- 235. Give the reason to support that H2SO4 is a dehydrating agent.
- 236. Bleaching action of SO2 Explain.
- 237. Gd 3+ is colourless, why?
- 238. Fe3+ is more stable than Fe 2+, why?
- 239. Mn2+ is more stable than Mn3+ why?
- 240. Cu 2+ coloured, Zn2+ colourless, why?
- 241. Why we add NaCN in Froth Flotation method.
- 242. Explain why Cr 2+ is strongly reducing while
- Mn3+ is strongly oxidizing.
- 243. Transitional Elements exhibit variable oxidation states. Why?
- 244. Why Transitional elements are formed interstitial compounds?
- 245. Out of Lu (OH) 3 and La (OH) 3 which is more basic and why?
- 246. [Ti (H2O) 6]^3+ is coloured, while [Sc(H2O) 6]^ 3+ is colourless explain?
- 247. [Ni (CN) 4][^] 2- is diamagnetic, while [NiCl_{4}] [^] 2- is paramagnetic explain using crystal field theory.
- 248. A solution of [Ni (H20) 6]^ 2+ is green, whereas a solution of
- [Ni (CN) 4][^] 2 iscolourless explain.
- 249. Why the ionic crystals are hard and brittle?
- 250. Molar conductance of a solution increases with increases in dilution why?
- 251. Why AC current used instead of DC in measuring the electrolytic conductance.



- 252. Amines are more basicity than amide why?
- 253. Aniline does not under go Fridel Crafts reaction. why?
- 254. In case of chemisorptions, why adsorption first increase and then decreases with

temperature.

- 255. Ethylene Ethylene glycol.
- 256. Glycerol Acrolein.
- How will you convert the following
- 257. Glycerol \rightarrow 1,2,3 Trl Nitro Glycerin (TNG).
- 258. Cumene → Phenol.
- 259. Phenol Picric Acid.
- 260. Phenol Phenolphthalein.
- 261. Benzaldehyde Malachite green dye.
- **262.** Methyl Acetate → Ethyl Acetate.
- 263. Acetone → Pinacol.
- 264. Acetaldehyde → Lactic Acid.

STRUCTURES

- 265. Structures HNO3.
- 266. Structures H3P03
- 267. Structures PCI5
- 268. Structures IF7
- 269. Structures BrF5
- 270. Structures CO2 and CO give the resonance structure.
- 271. The electronic configuration of 4f and 5f elements.
- 272. Cyclic structure of Glucose.
- 273. Cyclic structure of Frutose.
- 274. Structure of Sucrose.
- 275. Structure of Lactose.
- 276. Structure of Maltose.
- 277. Importance of Carbohydrates, Proteins and Lipids, Structure of urotrophine
- 278. Packing efficiency of BCC?

FOR MORE FANTASTIC MATERIALS JOIN WHATSAPP CHANNEL: CLICK HERE

SS PRITHVI



CALCULATIONS

- 279. Packing efficiency of Simple Cubic.
- 280. Packing efficiency of FCC?
- 281. Write the expression for the solubility product of Ca3(PO4)2
- 282. Write the expression for the solubility product of Hg2Cl2
- 283. Calculate the PH of 0.1M CH3COOH solution. Dissociation constant of Acetic acid (Ka) is 1.8 * 10 $^{\wedge}$ 5 . 284. Calculate the PH of 0.001 M HCl solution.
- 285. Show that in case of first order, reaction. The time required for 99.9% completion is nearly 10 times the time required for half completion of the reaction.
- 286. Find the number of atoms present in a FCC unit cell.
- 287. Calculate the standard emf of the cell Cd C d 2 + | CU2+ | CU and determine the cell reaction. The standard reduction potential of C u 2 + | Cu and C d 2 + | Cd are 0.34V and 0.40 voltsrespectively. Predict the feasibility of the cell reaction.

FOR MORE FANTASTIC MATERIALS JOIN WHATSAPP CHANNEL: CLICK HERE

FOR MORE FREE FANTASTIC MATERIALS JOIN US ON:

TELEGRAM: CLICK TO JOIN

WITH REGARDS,

SS PRITHVI,

PRIT-EDUCATION.

