

ECAT Chemistry MCQ's Test For Full Book

| Sr | Questions | Answers Choice |
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| 1 | the element not known till Mandleev tabulated his periodic table: | A. Carbon B. Hydrogen C. Aluminum D. Germanium |
| 2 | Hydrolysis of alkyl nitriles gives: | A. alkane B. alkyl halide C. alkyl nitride D. carboxylic acids |
| 3 | Glass calorimeter reaction is one which we measure | A. Enthalpy of combustion B. Enthalpy of reaction C. Pressure volume work D. None of above |
| 4 | Which is used in bacterial lamps | A. He B. Ne C. Ar D. Kr |
| 5 | What is the formula of asbestos? | A. $\text{CaMg}_3(\text{SiO}_3)_4$ B. CaSiO_3 C. Na_2SiO_3 D. $\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$ |
| 6 | What is the most common catalyst used in hydrogenation of oils | A. Cobalt B. Nickel C. Tungsten D. Copper |
| 7 | Which of the following is an isomer of ethanol | A. CH_3OCH_3 B. $\text{C}_2\text{H}_5\text{OC}_2\text{H}_5$ C. CH_3OH D. $\text{C}_2\text{H}_5\text{OH}$ |
| 8 | Which of the following is not fatty acid? | A. Propanoic acid B. Acetic acid C. Phthalic acid D. Butanoic acid |
| 9 | Identification of a substance, determination of its structure and quantitative analysis of its composition are the aspects covered by | A. Modern analytical physics B. Mechanical chemistry C. Biochemistry D. Modern analytical chemistry |
| 10 | Which of the following is used as disinfectant | A. $\text{K}_2\text{Cr}_2\text{O}_7$ B. KMnO_4 C. K_2MnO_4 D. K_2CrO_4 |
| 11 | The ionic product of H^+ ions and OH^- in water is called ionization constant of water K_w . The value of K_w at 25°C is | A. 0.11×10^{-14} B. 0.30×10^{-14} C. 1.0×10^{-14} D. 3×10^{-14} |
| 12 | Solution which distill without change in composition or temperature are called | A. Amorphous B. Azeotropic mixture C. Ideal D. Super saturated |
| 13 | Substances that tend to decrease the activity of enzymes are called | A. Coenzyme B. Activators C. Inhibitors D. Apoenzyme |
| 14 | Hydrogen gas and iodine vapours combine to form HI at 425°C , the same composition of mixture is present if we start with decomposition of HI. It suggests | A. A static equilibrium B. Law of mass action C. A dynamic equilibrium D. Irreversible reaction |
| 15 | Base buffer solution can be prepared by mixing | A. Weak acid and its salt B. Strong acid and its salt with weak base C. Weak base and its salt with strong acid |

D. Strong base and its salt with weak acid

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| 16 | Standard reduction of Zn = -0.76 V and that of Ni is -0.25 V. On coupling them by a salt bridge which of these will act as anode | A. Salt bridge will act as anode B. Zn will act as anode C. Ni will act as anode D. None of these |
| 17 | Which of the following oxides is unlikely to dissolve in aqueous hydroxide | A. Al_2O_3 B. MgO C. SO_2 D. SiO_2 |
| 18 | Pressure remaining constant, at which temperature volume of gas will become twice of what it is at 0°C ? | A. 546K B. 200 C. 546K D. 273K |
| 19 | Number of elements in the first period of the periodic table are | A. Two B. Four C. One D. Eight |
| 20 | Which of the following is not an element? | A. Graphite B. Diamond C. 22-Carat gold D. Rhombic sulphur |