

## ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Spontaneous reaction is such in which the system decreases its	A. Energy B. Free energy C. Entropy D. All
2	Gypsum added in the cement is :	A. 5% B. 10% C. 15% D. 20%
3	The periodic function of properties of elements is their atomic number	A. Al-Razi B. Mosley C. Newland D. Mendeleev
4	Ethanol is prepared in Pakistan form fermentation of:	A. Starch B. Sugar C. Glucose D. Molasses
5	The best buffer is prepared when molar concentrations of the salt and acid are equal, then its pH and pKa value are related	A. pH = pKa B. pH < pKa C. pH > pKa D. pH x pKa = 14
6	One mole of $C_2H_5OH$ contains the number of H-atoms	A. 6.02 x 10 <sup>23</sup> B. 3.61 x 10 <sup>24</sup> C. 1.81 x 10 <sup>24</sup> D. 6.02 x 10 <sup>24</sup>
7	Elements in the same family have	A. Same atomic number B. Molecular wt same C. Same chemical properties D. Same electronic configuration
8	Which is a weak nucleophile	A. OH <sup>-</sup> B. Br <sup>-</sup> C. NH <sub>3</sub> D. Cl <sup>-</sup>
9	Alkyl halides react with Mg in dry ether to form	A. Magnesium halide B. Grignard's reagent C. Alkene D. Alkyne
10	How many g of dibasic acid (mol. wt. 200) should be present in 100 ml of the aqueous solution to give 0.1 Normality?	A. 1 g B. 2 g C. 10 g D. 20 g
11	In Dow's method, phenol can be made from	A. Chlorobenzene B. Benzene C. Toluene D. Benzene sulphonic acid
12	The nitration of benzene takes place when it is heated with a mixture of conc. HNO3and conc. H $_2$ SO4at 50°C in ratio of	A. 1:2 B. 1:1 C. 1:3 D. 2:1
13	The percentage of H is the highest in	A. CH <sub>4</sub> B. NH <sub>3</sub> C. H <sub>2</sub> SO <sub>4</sub> D. C <sub>6</sub> H <sub>12</sub> O <sub>6</sub>
14	Which is not the enzyme involved in the preparation of ethyl alcohol by fermentation of starch	A. Diastase B. Maltase C. Zymase D. Invertase
15	The energy absorbed when an electron is added to a gaseous atom to form a gaseous ion is called	A. Electron affinity B. Ionization energy C. Both of these D. None of these

16	Preparation of ethylbenzene by the reaction of bromobenzene, ethylbromide and sodium is called	A. Wurtz reaction B. Fitting reaction C. Wurtz fitting reaction D. None of these
17	Which can be used for dehydration of alcohol	A. P <sub>4</sub> O <sub>10</sub> B. H <sub>2</sub> SO <sub>4</sub> C. H <sub>3</sub> PO <sub>4</sub> D. All of them
18	Which formula represents the organic compound formed by the reaction of propanoic acid with methanol in the presence of concentrated sulphuric acid as a catalyst	A. CH <sub>3</sub> CH <sub>2</sub> COCH <sub>3</sub> B. CH <sub>3</sub> CH <sub>2</sub> CO <sub>2</sub> CH <sub>3</sub> C. CH <sub>3</sub> CO <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub> D. CH <sub>3</sub> CH <sub>2</sub> CO <sub>2</sub> CH <sub>2</sub> CO <sub>2</sub> CH <sub>3</sub> CH <sub>4</sub> CH <sub>6</sub> CH <sub>6</sub> CH <sub>6</sub> CH <sub>6</sub> CH <sub>6</sub>
19	Which is the derived lipid?	A. Common fats B. Vitamin-D C. Common oils D. Spinolipids
20	With increases of 10°C temperature the rate of reactiondoubles. This increase in rate of reactionis due to :	A. Decrease in activation energy or reaction.     B. Decrease in number of collisions between reactant molecules.     C. Increase in activation energy of reactants.     D. Increase in number of effective collisions