

## ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	$C_6H_{12}O_6$ is molecular formula of:	A. Glucose B. Dextrose C. Fructose D. All of these
2	In the modern periodic table the elements are placed in the ascending order of their	A. Atomic masses B. Melting points C. Boiling points D. Atomic numbers
3	The ionic product of $H^+$ ions and $OH^-$ in water is called ionization constant of water $K_w$ . The value of $K_w$ at $25^\circ C$ is	A. $0.11 \times 10^{-14}$ B. $0.30 \times 10^{-14}$ C. $1.0 \times 10^{-14}$ D. $3 \times 10^{-14}$
4	Series starting from $^{57}La$ , $^{42}Hf$ - $^{80}Hg$ is in the period:	A. 4th B. 5th C. 6th D. 7th
5	A carboxylic acid containing Ar group in it is called:	A. Aromatic carboxylic acid B. Aliphatic carboxylic acid C. Dicarboxylic acid D. Carboxylic acid
6	Elimination bimolecular reactions involve:	A. First order Kinetics B. Third order kinetics C. Zero order kinetics
7	Which step is unnecessary for purification of water for drinking purposes	A. Aeration B. Coagulation C. Treatment with chlorine D. Treatment with iodine
8	$sp^3$ hybridization occurs when carbon is bound to	A. Four other atoms B. Three other atoms C. Two other atoms D. One other atoms
9	The main pollutant of leather tanneries in the waste is due to the salt of:	A. lead B. Chromium (VI) C. Copper D. Chromium (III)
10	The mass of $Al_2S_3$ formed when 20 grams Al reacts completely with S is	A. 60 g B. 50 g C. 50.55 g D. 55.55 g
11	Ozone layer of stratosphere requires protection from indiscriminate use of	A. Fungicides, insecticides, bactericides and medicines B. Aerosols and high flying jets C. Atomic explosions and industrial wastes D. Balloons and turbo-prop aeroplanes
12	A solution sucrose is 34.2%. The volume of solution containing one mole of solute :	A. $342 \times 10^{-3}$ cm <sup>3</sup> B. $1000 \times 10^{-3}$ cm <sup>3</sup> C. $500 \times 10^{-3}$ cm <sup>3</sup> D. $242 \times 10^{-3}$ cm <sup>3</sup>
13	Gases exert pressure on walls of container because the gas molecules :	A. Obey gas laws. B. Have definite volume. C. Collide with the walls of container. D. Have high kinetic energy.

		D. Collide with each other.
14	Due to the bacterial action on wood it is converted into	A. Peat B. Lignite C. Bituminous coal D. Anthracite
15	The overlapping of two partially filled atomic orbital is in such a way that the probability of finding the electron pair is maximum along the axis joining the two nuclei, the bond is	A. Sigma bond B. Pi bond C. Ionic bond D. Non-polar bond
16	Cyclohexane can be converted not benzene in the presence of	A. Pt at 100°C B. Pt at 250°C C. Pd at room temperature D. Pt at room temperature
17	The order of reactivity of halogen acids for reaction with $C_2H_5OH$ is	A. HCl > HBr > HI B. HI > HBr > HCl C. HBr > HI > HCl D. HBr > HCl > HI
18	According to Boyle's law, which parameters give a straight line parallel to axis-s, when we plot a graph between:	A. V and T B. P and V C. P and 1/V D. P and PV
19	Identification of a substance, determination of its structure an quantitative analysis of its composition are the aspects covered by:	A. Modern analytical physics. B. Mechanical chemistry. C. Biochemistry. D. Modern analytical chemistry.
20	Cotton is _____% cellulose	A. 90 B. 100 C. 99 D. 30