

## ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Group VI-B of transition elements contains:	A. Zn, Cd, Hg B. Fe, Ru, Os C. Cr, Mo, W D. Mn, Te, Re
2	The study of heat changes accompanying a chemical reaction is known as :	A. Thermochemistry. B. Biochemistry. C. Physical chemistry. D. Analytical chemistry.
3	The colour of transition metal complexes is due to	A. d-d transitions of electrons B. Para magnetic nature of transition elements C. Ionization D. Loss of s-electrons
4	Which of the following statements is most appropriate about effective nuclear charge? It depends upon	A. The shielding constant B. The atomic number C. The charge on the nucleus D. Both the nuclear charge and the shielding constant
5	In Boyle's law which of the following pair is variable :	A. Temperature and quantity of a gas. B. Pressure and volume C. Volume and quantity of a gas. D. Pressure and quantity of a gas.
6	When CO <sub>2</sub> is made to react with ethyl magnesium iodide, followed by acid hydrolysis, the product formed is	A. Propane B. Propanoic acid C. Propanal D. Propanol
7	The tip of funnel should be 1 or 2cm larger than the circle of the	A. Beaker B. Solid C. Filter paper D. Liquid
8	In public urinals, we observe some nascent smell. This smell is due to	A. Hydrolysis of urea of urine by urease of atmosphere into NH <sub>3</sub> and CO <sub>2</sub> B. Formation of sulphonic acid by urea of urine C. Reaction of CO <sub>2</sub> of atmosphere with urea monoitrate in urine D. Hydrogen present in air reacts with nitrogen forming NH <sub>3</sub>
9	The human body can synthesize _____ amino acids	A. 1 B. 10 C. 20 D. 19
10	Astatine belongs to group	A. I-A B. II-A C. III-A D. VII-A
11	Fluorine molecule is formed by	A. The axial p-p overlap B. The sidewise p-p overlap C. The axial s-p overlap D. The overlap of two sp <sup>2</sup> hybrid orbitals
12	The empirical formula of benzene is determined by	A. IR spectra B. U.V C. Elemental analysis D. NMR spectra
13	The steroids of fungi and yeast are called:	A. Vitamin D B. Vitamin D <sub>2</sub> C. Ergosterol D. Cholestorl

14	Which metal is used in the thermit process because of its activity?	A. Iron B. Copper C. Alumnium D. Zinc
15	The brown gas formed when metal reduces $\text{HNO}_3$ is	A. $\text{N}_2\text{O}_5$ B. $\text{N}_2\text{O}_3$ C. $\text{NO}_2$ D. NO
16	1-butene and 2-butene are an example of	A. Chain isomerism B. Positional isomerism C. Metamerism D. Functional group isomerism
17	The molecule of ethane possess which hybridization	A. $sp^3$ B. $sp^2$ C. $sp$ D. $sp^2$
18	Eka-aluminium and Eka-silicon are known as	A. Gallium and Germanium B. Aluminium and silicon C. Iron and sulphur D. Proton and silicon
19	Protein may have	A. Primary structure B. Secondary structure C. Tertiary structure D. All of these
20	Which reagent could be used to distinguish between $\text{CH}_3\text{CH}(\text{OH})\text{CH}_2\text{CHO}$ and $\text{CH}_3\text{COCH}_2\text{CH}_2\text{OH}$	A. Acidified potassium dichromate B. Dilute sulphuric acid C. 2,4-dinitrophenylhydrazine D. Fehling's reagent