

ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Which bond shows maximum hydrogen bonding with water?	A. CH_3OH B. $\text{C}_2\text{H}_5\text{OH}$ C. CH_3OCH_3 D. $\text{C}_6\text{H}_5\text{OH}$
2	Elements have the tendency to attain 8 electrons in their valence shell. This is known as	A. Octet rule B. Hund's rule C. Pauli exclusion principle D. Aufbau principle
3	Which one of the following is not a nucleophile?	A. H_2O B. HS^- C. BF_3 D. NH_3
4	The molarity of solution containing 14.5 grams urea ($\text{N}_2\text{H}_4\text{CO}$) dissolved in 100 cm^3 of the solution is	A. 1 molar B. 0.1 molar C. 0.2 molar D. 0.25 molar
5	The cathodic reaction in the electrolysis of dilute H_2SO_4 with Pt electrodes	A. Reduction B. Oxidation C. Both oxidation and reduction D. neither oxidation or reduction
6	Question Image	A. -778.9 KJ B. 788.0 KJ C. -1.9 KJ D. +1.9 KJ
7	Alcohols react with carboxylic acid to produce the class of compounds known as	A. Grignard's reagent B. Esters C. Amides D. None of these
8	Essential amino acids are those amino acids which	A. Body can not synthesize B. Body can synthesize C. -amino acids D. >β-amino acids
9	The movement of molecules from a region of high pressure to vacuum is called :	A. Evaporation B. Effusion C. Conduction D. Diffusion
10	Which is not an enzyme?	A. Transverse B. Lipase C. Lyase D. None of these
11	Chromium (VI) is highly toxic and can cause	A. Blindness B. Cancer C. Liver problems D. Blood problems
12	An organic acid having molecular formula $\text{C}_2\text{H}_4\text{O}_2$ is	A. Formic acid B. Acetic acid C. Oxalic acid D. Propionic acid
13	Substitution of halogen in the benzene ring requires catalyst	A. AlCl_3 B. FeCl_3 C. SiO_2 D. Organo-nickel
14	The percentage of methane in natural gas is	A. 50% B. 60% C. 75% D. 85%

		<p>C. 85%</p> <p>D. 90%</p>
15	A polymeric substance that is formed in the liquid state and then hardened to a rigid solid is called a:	<p>A. Fiber</p> <p>B. Plastic</p> <p>C. Vanish</p> <p>D. Polyamide resin</p>
16	Which one of the following is a water soluble vitamin?	<p>A. Naacin</p> <p>B. Riboflavin</p> <p>C. Trypsin</p> <p>D. Ascorbic acid</p>
17	Hybridization explain the ----- of orbitals	<p>A. Type of bonding</p> <p>B. Shapes</p> <p>C. Shape and type of bonding</p> <p>D. None of above</p>
18	Which of the statements given below concerning properties of solution, describe a colligative effect?	<p>A. Boiling point of pure water decreases by the addition of ethanol</p> <p>B. Vapour pressure of pure water decreases by the addition of nitric acid</p> <p>C. Vapour pressure of pure benzene decreases by the addition of naphthalene</p> <p>D. Boiling point of pure benzene increases by the addition of toluene</p>
19	Which of the following are thermoplastic materials	<p>A. PVC</p> <p>B. Polystyrenes</p> <p>C. Polyethylene</p> <p>D. All these</p>
20	Number of molecules in one dm^3 of water is close to :	<p>A. $6.02/22.4 \times 10^{23}$</p> <p>B. $12.04/22.4 \times 10^{23}$</p> <p>C. $18/22.4 \times 10^{23}$</p> <p>D. $55.6 \times 6.02 \times 10^{23}$</p>