

ECAT Chemistry Online Test

Sr	Questions	Answers Choice
1	In the atmosphere, CO ₂ is about	A. 0.01% B. 0.03% C. 0.05% D. 0.09%
2	In the hydrolysis of CH ₃ COOC ₂ H ₅ the acid produced is	A. Inhibitor B. Catalyst C. Auto catalyst D. None of above
3	Enzymes catalyse all biological reactions occurring in the cell. What is true about an enzyme	A. Enzyme is a small molecule B. Enzyme is acidic in nature C. Enzyme is a protein D. Enzyme is a lipid
4	The mass of Al ₂ S 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
5	The rotation of two carbon atoms joined by double bond would happened only if	A. Pi bond is broken B. Sigma bond is broken C. Both bonds are broken D. None of above
6	Acidic hydrolysis of acetamide gives	A. Acetaldehyde B. Acetic acid C. Methyl amine D. Formic acid
7	Which of the following statements is no correct regarding bonding molecular orbitals?	A. Bonding molecular orbitals possess Is energy than atomic orbitals from which they are formed. B. Bonding molecular orbitals have low electron density between the two nuclei. C. Every electron in bonding molecular orbitals contributes to the attraction b.w atoms. D. Bonding molecular orbitals are formed when the electron waves undergo constructive interference.
8	Alcohols are derivatives of:	A. Benzene B. Alkanes C. Alkens D. Alkynes
9	The mathematical form of fist law of thermodynamics is	
10	The correct set of quantum numbers (n,l and m) respectively of the unpaired electron of chlorine atom is	A. 2,1,0 B. 2,1,1 C. 3,1,1 D. 3,2,1
11	Which of the following is not true for metalloids	A. They are borderline elements that exhibit both metallic and non-metallic properties to some extent B. They usually act as electron donors with non-metals and as electron acceptors with metals C. Some of these elements are boron, silicon and germanium D. They are good conductors of heat and electricity
12	How much of NaOH is required to neutralize 1500 cm ³ of 0.1 N HCl?	A. 60 g B. 6 g C. 4 g D. 40 g
13	In a compound an atom has negative oxidation state because	A. Atom is negatively charged B. Atom acts as cathode C. Atom is more electronegative

		D. Atom has lowest ionization energy
14	Which one of the following has highest density	A. Zn B. Os C. Ni D. Cu
15	Question Image	A. di(4-bormophenyl) method B. Methanol C. Propan-1-ol D. Propan-2-ol
16	Splitting of spectral lines when atoms are subjected to strong electric field is called:	A. Zeeman effect.B. Stark effectC. Photoelectric effect.D. Compton effect.
17	Ozone is not	A. An allotropeB. A powerful oxidizing agentC. ParamagneticD. A bent molecule
18	Coligative properties are the properties of	A. Dilute solution which behave as nearly ideal solutions B. Concentrated solutions which behave as nearly non-ideal solution C. Both (i) and (ii) D. Neither (i) and (ii)
19	Zwitter ion is ion an amino acid	A. Polar B. Monopular C. Dipolar D. Non polar
20	The maximum number of electrons in a subshell for which I = 3 is	A. 14 B. 10 C. 8 D. 4