

ECAT Chemistry Online Test

Sr	Questions	Answers Choice
1	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
2	The degree of unsaturation in fats or oils is usually measured by numbers of grams of iodine required by 100 grmas of fat, this is called	A. Oil number B. Saturation number C. lodine number D. Un saturation number
3	Question Image	A. 32 g B. 3.2 g C. 5.6 g D. 9.6 g
4	Rare earth elements are	A. s-block elements B. p-block elements C. d-block elements D. f-block elements
5	Effective magnetic moment of Sc ³⁺ ion is	A. 1.73 B. 0 C. 5.92 D. 2.83
6	The atomic mass is measured in atomic mass unit (a.m.u.) which is equal to	A. 1.661 x 10 ^{-27- Kg} B. 1.661 x 10 ⁻²⁴ Kg C. 1.661 x 10 ^{-27- g} D. 1.661 x 10 ⁻²⁴ mg
7	When a weak acid is dissolved in water or a weak base dissolved in water, then in both cases the conjugate acid base pair is produced. The ionization constants K_a and K_b of a pair are related with each other as	A. K _a = K _b = B. K _a = K _b = K _w = C. K _a . K _w = C. K _a . K _w = K _b = D. K _b = K _a . K _w = K _a = B=
8	For a 3P subshell the set of principle and azimuthal quantum number is	A. n = 1, I = 2 B. n = 3, I = 0 C. n = 3, I = 1 D. n = 1, I = 3
9	One kilocalrie is equal to	A. 4.184 x 10 ³ J B. 4.184 x 10 ⁴ J C. 4.184 x 10 ² J D. None of these
10	The mass of the neutron is of the order of	A. 10 ⁻²³ kg B. 10 ⁻²⁴ kg C. 10 ⁻²⁶ kg D. 10 ⁻²⁷ kg
11	95% alcohol is called	A. Rectified spirit B. Spirit of wine C. Spirit D. Methylated
12	Boric acid cannot be used:	A. An antiseptic in medicine B. For washing eyes C. In soda bottles D. For enamels and glazes
13	The number of atoms or molecules whose concentrations determine the rate of the reaction is called	A. Molecularity B. Order C. Rate of reaction D. Rate constant
14	Acyl halide is formed by reacting PCl ₅ with	A. Alcohol B. Ester C. Amide D. Both carboxylic acids as well as esters

15	The organic compounds which derivative of hydrocarbons due to oxygen is:	A. Phenol B. Alcohol C. Alkyl halide D. Either
16	All 3d series elements show variable oxidation states. The one shown by all 3d elements is	A. +2 B. +3 C. +4 D. +5
17	Question Image	A. Ethanol in the presence of concentrated sulphuric acid B. Potassium hydroxide C. Sodium D. Sodium carbonate
18	The bond angle depends upon the	A. Types of bondsB. Number of bondsC. Non-bonding electron pairsD. All of the above
19	Linear shape is associated with set of hybrid orbitals?	A. sp B. sp2 C. sp3 D. dsp2
20	Which is the derived lipid?	A. Common fats B. Vitamin-D C. Common oils D. Spinolipids