

ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The valence shell of hydrogen is half filled like those of	A. IV - A B. VIA C. V - A D. VIIA
2	Inn which of these processes are small organic molecules made into macromolecules?	A. The cracking of petroleum fractions B. The fractional distilation of crude oil C. the polymerization of ethane D. The hydrolysis of proteins
3	According to the periodic law, the chemical properties of the elements are periodic functions of their	A. Density B. Atomic number C. Atomic mass D. Mass number
4	Which one of the following is not related to spontaneous process	A. Unidirectional B. Real C. Irreversible D. Artificial
5	Which of the following acid can be used as a catalyst in Friedel Craft's reaction?	A. AlCl_3 B. HNO_3 C. BeCl_2 D. NaCl
6	Hydrogen bond is the strongest between the molecules of:	A. HF B. HCl C. HBr D. HI
7	Which of the following hydrogen halide is the weakest acid in solution	A. HF B. HBr C. HI D. HCl
8	Which one of the following substances is a synthetic polyester	A. Cotton B. Nylon C. Rayon D. Terylene
9	Vinegar made form cane sugar, now a days synthetically contains	A. Citric acid B. Lactic acid C. Acetic acid D. Palmitic acid
10	The real or imaginary surface separating the system from the surrounding is called	A. Imaginary line B. Boundary C. Real line D. All of above
11	In Millikan method for determination of charge on electron the air in the chamber is ionized by	A. Protons B. Electric field C. X-rays D. α - particles
12	For the carbylamine reaction we need hot alc.KOH and	A. Any amin and chloroform B. Chloroform and Ag powder C. A primary amine and chloroform D. A mono alkyl amine and trichlorom-ethane
13	Two moles of HI was heated in a sealed tube at 440°C till the equilibrium was reached. HI was found to be 22% decomposed. The equilibrium constant for dissociation is	A. 0.282 B. 0.0796 C. 0.0199 D. 1.99
14	If 5.85 of NaCl are dissolved in 90g of water the mole fraction of NaCl is	A. 0.1 B. 0.01 C. 0.2 D. 0.0196
15	Which carbonate of alkali metals is insoluble in water	A. Na_2CO_3 B. K_2CO_3 C. Li_2CO_3 D. Rb_2CO_3

16	The orbitals having $n + l = 5$ are	A. 2p, 3d, 3s B. 3p, 3d, 5s C. 3s, 4p, 4d D. 5s, 4p, 3d
17	In exothermic reversible reaction increase in temperature shift the equilibrium to :	A. Remains unchanged. B. Product side. C. Reactant side. D. None of above.
18	In the earth crust sodium is	A. 2.50% B. 2.30% C. 2.40% D. 3.50%
19	A macroscopic property of a system which describes the initial and final state of the system is called	A. Physical property B. Chemical property C. Energy property D. State function
20	Which of the followings is not a nucleophile	A. OH ⁻ B. NH ₃ C. C ₂ H ₅ O ⁻ D. Br ₂