

ECAT Chemistry Online Test

Sr	Questions	Answers Choice
1	If liquids A and B form an ideal solution	A. The enthalpy of mixing is zero B. The entropy of mixing is zero C. <div>The free energy of mixing is zero</div> D. The free energy as well as the entropy of mixing are each zero
2	The factor which effect the rate of reaction	A. Nature of reactants B. Surface area C. Light D. All of the above
3	Cotton has cellulose in it:	A. 96% B. 97% C. 98% D. 99%
4	Which of the following equations represents the action of heat on ${ m NaHCO_3}$	
5	Which of the following is a method of converting a unsaturated ketone into unsaturated hydrocarbon?	A. Aldol condensation B. Reimer Tiemann reaction C. Cannizaaor's reaction D. Wolf-kishner reduction
6	A phtotographic plate is coated with an emulsion of silver nitrate and	A. AgCI B. AgI C. AgBr D. NaNO ₃
7	For which system does the equilibrium constant. K_{C} has units of	
8	Question Image	A. Favour the formation of N ₂ O ₄ B. Favour the decomposition of N ₂ O ₄ C. Not alter the equilibrium D. Stop the reaction
9	If heat absorbed in the reaction, the process is said to be	A. Exothermic B. Isothermal C. Adiabatic D. Endothermic
10	Picric acid is	A. 2, 4, 6-Trinitrotoluene B. 2, 4, 6-Tribomoethanol C. 2, 4,6-Trinitrophenol D. Para-Nitrophenol
11	From which of the following tertiary butyl alcohol is obtained by the action of methyl magnesium iodide?	A. HCHO B. CH ₃ CHO C. CH ₃ COCH ₃ D. CO ₂
12	The process in which solvent particles surround solute particles is called	A. Hydrolysis B. Hydration C. Solvation D. Dissolution
13	The function of salt bridge is :	A. To increase movement onions. B. To increase the emf of cell. C. To decrease the temperate D. To maintain electrical neutrality
14	DNA is a polynucleic acid. The monomer is known as a nucleotide. What is not the component of the nucleoptide	A. Phosphate groupB. Deoxy ribose sugarC. Uracil baseD. Adenine base
15	The amount of heat required to convert one mole of solid directly into its vapour state at STP is called as	A. Molar heat of vaporization B. Standard heat of vaporization C. Heat of reaction D. Heat of neutralization

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16	The spectrum of He is expected to be similar to that of	A. H B. Na C. He ⁺ D. Li ⁺
17	Where energy is released during a reaction it is	A. Exothermic reaction B. Endothermic reaction C. A free radical reaction D. A bond breaking reaction
18	The addition of a catalyst to a reaction changes the	A. Enthalpy B. Entropy C. Nature of reactants D. Energy of activation
19	When the electron jumps form second third, fourth orbit to the fist orbit, the transitions are known as	A. Balmer series B. Lyman series C. Pfund series D. Brackett series
20	Which of the following geometry is associated with the compound in which the central atom assumes sp ³ d hybridization?	A. Planar B. Pyramidal C. Angular D. Trigonal bipyramidal