

MDCAT Chemistry Online Test

Sr	Questions	Answers Choice
1	During the nitration of benzene the nitrating agent is	A. NO ₃ B. NO ₂ ⁺ C. NO ₂ ⁻ D. HNO ₃
2	Hydrosphere includes	A. Seas and rivers B. Ocean & polar ice caps C. Ground water D. All of above
3	In purification of potable water the coagulant used is:	A. Nickel sulphate B. Copper sulphate C. Barium sulphate D. Aluminium sulphate
4	Helium atom is two times heavier than a hydrogen molecule. At 298 K, the average kinetic energy of a helium atom is	A. same as that of a hydrogen molecule B. half that of a hydrogen molecule C. two times that of a hydrogen molecule D. four times that of hydrogen molecule
5	Which of these has at least one d electron	A. Sc ⁺³ B. Mn ⁺⁷ C. Ti ⁺⁴ D. Cr ⁺³
6	Plastic toys are	A. Copolymer B. Thermoplastic polymer C. Thermosetting polymer D. Homopolymer
7	Nylon, 6,6 is a condensation polymer of	A. adipic acid and glycol B. phthalic acid and glycol C. adipic acid and hexaethylene diamine D. phthalic acid and hexaethylene diamine
8	Benedict solution gives a positive test with	A. Glucose B. Fructose C. Sucrose D. Starch
9	The change in enthalpy when one mole of a substance is dissolved in a specified quantity of solvent at a given temperature is called	A. Heat of reaction B. Heat of solvation C. Heat of combustion D. Heat of solvent
10	Silk is the example of:	A. mineral fiber B. vegetable fiber C. animal fiber D. none of above
11	The solubility of Fe(OH) ₃ is 'x' mole per dm ³ . Its K _{sp} would be	A. 9X ³ B. 3X ⁴ C. 27X ⁴ D. 9X ⁴
12	Which of the following is the element not present in all proteins?	A. Carbon B. Hydrogen C. Nitrogen D. Sulphur
13	Major food factors are?	A. Fats and oils B. Carbohydrates C. Proteins D. All of these
14	Sterols, vitamin D and terpenese belong to	A. Simple lipids B. Complex lipids C. Derived lipids D. None

15	Monosaccharides belong to the group	A. lipids B. fats C. proteins D. carbohydrates
16	Enzymes are chemically	A. carbohydrates B. proteins C. fatty acids D. phospholipids
17	Hydrosphere covers the surface of earth:	A. 70.8% B. 71.8% C. 72.8% D. 73.8%
18	Amino acid which has cyclic structural is	A. Proline B. Valine C. Alanine D. Glutamic acid
19	Ice floats on water because	A. the hydrogen bonding in ice is stronger than that of in water B. empty spaces are left in ice C. ice has two-dimensional structure D. the bond length of the oxygen and hydrogen bond is different in water and ice
20	The number of atoms or molecules whose concentrations determines the rate of a chemical reaction is called the	A. Molecularity of the reaction B. specific activity of the reaction C. Order of the reaction D. rate constant of the reaction