

ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The number of unpaired electrons in ferrous ion (Z - 26) is	A. 3 B. 2 C. 4 D. 5
2	The osmotic pressure of a dilute solution is directly proportional to the	A. Diffusion rate of the solute B. ionic concentration C. Elevation in boiling point D. Flow of solvent from a concentrated to a dilute solution
3	Newland gave his law in the year:	A. 1829 B. 1864 C. 1871 D. 1913
4	Ethylene combines with water in the presence of $H_2SO_4 + HgSO_4$ and forms	A. Ethyle chloride B. Ethyle alcohol C. Carboxylic acid D. None of these
5	Lime, calcium oxide, is used in agriculture for	A. Adding ca metal in soil B. Making soil acidic C. Neutralizing acidic soil D. Adding oxygen to soil
6	d-block elements belong to groups	A. I-A & II-A B. III-A to VIII-A C. I-B to X-B D. Lanthanides
7	Ammonium carbonate when heated to $200^\circ C$ gives a mixture of NH_3 and CO_2 vapour with a density of 13.0. What is the degree of dissociation of ammonia carbonate?	A. $3/2$ B. $1/2$ C. 2 D. 1
8	Ammonia is injected under the soil surface:	A. 1 Feet B. 6 inches C. 6 Feet D. 9 inches
9	Spontaneous reaction is such in which the system decreases its _____	A. Energy B. Free energy C. Entropy D. All
10	Which of these reactions is shown by buranone, $CH_3COCH_2CH_3$	A. On warming with acidified potassium dichromate (IV) the solution turns green B. On heating with Fehling's reagent a red precipitate is formed C. With 2,4-dinitrophenylhydrazine reagent an orange precipitate is formed D. With hydrogen cyanide an aldehyde is formed
11	The raw material to form nylon is	A. Adipic acid B. Butadiene C. Isoprene D. Ethylene
12	An element of the third period (Na to S) is heated in chlorine. The product is purified and then added to water. The resulting solution is found to be neutral. What is the element	A. Sodium B. Aluminium C. Silicon D. Phosphorus
13	Half life period of a reaction is inversely proportion to the initial concentration of the reactant, then order of reaction is	A. Third order B. Second order C. First order D. Zero order
14	Two or more similar monomers combine to form:	A. Homopolymer B. Copolymer C. Ter polymer D. None of these

		D. Thermoplastic polymers
15	Cotton has cellulose in it:	A. 96% B. 97% C. 98% D. 99%
16	Who gave the concept of atomic number	A. Newton B. Mosley C. Dalton D. Newland
17	Which substances are mixed to form a buffer solution?	A. A strong acid and its salt of a strong base B. Strong acid and its salt of weak base C. Weak acid and its salt of strong base D. Weak acid and its salt of weak base
18	Which can be prepared from HNO_3 ?	A. T.N.T B. Fertilizers C. Picric acid D. All of these
19	The energy units in which heat changes usually expressed in SI-system are:	A. Joule. B. Calorie. C. Kilo Joule. D. Both (a) and (c)
20	Which of the following species has unpaired electrons in ant-bonding molecular orbitals?	A. O_2^{+2} B. N_2^{-2} C. B_2 D. F_2