

ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	The negatively charged particles are called	A. Cation B. Radical C. Anion D. Positron
2	17.1 grams sucrose (C ₁₂ H ₂₂ O ₁₁) dissolved in 250 cm ³ of solution. This has molarity	A. 0.1 M B. 0.2 M C. 0.01 M D. 0.02 M
3	Alkyl halides react with Mg in dry ether to form	A. Magnesium halide B. Grignard's reagent C. Alkene D. Alkyne
4	Smallest charge of electricity that has been measured so far is	A. Charge on a-rays B. Charge on electron (1.602 x 10 ⁻¹⁹ C) C. Charge on x-rays D. Charge on gamma rays
5	Acetic acid is obtained when	A. Methyl alcohol is oxidized with potassium permanganate B. Calcium acetate is distilled in the presence of calcium formate C. Acetaldehyde is oxidized with potassium dichromate and sulphuric acid D. Glycerol is heated with sulphuric acid
6	In a group of periodic table, atomic radii is:	A. Remains some. B. Increases. C. First decreases then increases. D. Decreases.
7	Which of the following is the simplest form of matter?	A. Gaseous state B. Liquid state C. Solid state D. All of above
8	Which one of the following is not a buffer	A. H ₂ CO ₃ + NaHCO ₃ solution B. H ₃ PO ₄ + NaH ₂ PO ₄ solution C. HI + NaI solution D. NH ₄ OH + NH ₄ Cl solution
9	Alkanes or paraffin's are made up of.	A. Carbon, hydrogen and oxygen only B. Carbon, hydrogen and Magnesium only C. Carbon, hydrogen and nitrogen only D. Carbon and hydrogen only
10	During reaction of O ₂ and alkenes, a product:	A. Glycol B. Epoxide C. Halohydrin D. Ethylene glycol
11	By applying Hess's law, we can calculate	A. ΔH B. ΔS C. ΔF D. K
12	If Grignard reagent is allowed to react with another alkyl halide the main product is	A. An alkane B. Cyclo alkane C. Alkyne D. An alkene
13	The atomic number of an element is 35 what is the total number of electrons present in all the p-orbitals of the ground state atom of that element?	A. 6 B. 11 C. 17 D. 23
14	Which of the following human activities are contaminating surface and ground waters	A. Pesticides B. Septic tanks C. Petroleum and natural gas production D. All of these

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15	Which of the following is a member of -block	A. Zn B. Al C. B D. Br
16	In preparation method of carboxylic acids from alkyl halides always carboxylic acid formed which have carbon atoms:	A. One less than in R----X B. One more than in R---X C. Equal to R---X D. Double to R----X
17	General formula of alcohol is:	A. ROH B. Ar-OH C. R-O-R D. Ph-OH
18	Transition elements form which type of bond	A. Ionic bonds only B. Covalent bonds only C. Ionic and covalent bonds D. Polar bonds
19	An electric current is passed through silver voltameter connected to a water voltmeter. The cathode of the silver voltameter is 0.108 g more at the end of the electrolysis. The volume of oxygen evolved at STP is	A. 56 cm ³ B. 550 cm ³ C. 5.6 cm ³ D. 11.2 cm ³
20	The geometrical shape of a transition complex is related to the state of hybridizing of the central atom. What is trigonal bipyramidal	A. sp ³ B. dsp ² C. dsp ³ D. d ² sp ³