

ECAT Chemistry MCQ's Test For Full Book

Sr	Questions	Answers Choice
1	Which Statement about gases is not correct?	A. They spread throughout the vessel B. Pressure is due to collision C. There are larger spaces between the molecules D. Molecules are arranged regularly
2	Work is a	A. State function B. Only function C. Non-state function D. State
3	Aluminium oxide is:	A. Acidic oxide B. Basic oxide C. Amphoteric oxidized D. None of these
4	E.N. Value of fluorine is:	A. 2.1 B. 2.5 C. 3.5 D. 4.0
5	Which of the following sets of atomic numbers belong to that of the alkali metals?	A. 1,12,30,4,62 B. 37,19,3,55 C. 9,17,35,53 D. 12,20,56,88
6	Which is not a calcareous material	A. Lime B. Clay C. Marble D. Marine shell
7	Products of coal is:	A. Peat B. Lignite C. Bituminous coal D. All above
8	Which reagent is used to reduce a carboxylic group to an alcohol?	A. H ₂ /Ni B. H ₂ /Pt C. NaBH ₄ D. LiAlH ₄
9	What is not a common use of methane	A. As a fuel B. For the preparation of haloalkanes C. For the preparation of methyl alcohol D. For the preparation of sulphuric acid
10	When alkyl halide is heated with aqueous solution of ammonia at 100°C the major product is	A. Primary amine B. Secondary amine C. Tertiary amine D. Mixture of amines and salt
11	In gases and liquids, temperature is the measure of	A. Average translational kinetic energies of molecules B. Average vibrational kinetic energies of molecules C. Average rotational kinetic energies of molecules D. None of above
12	The principle quantum number describes	A. The distance from the nucleus B. The shape of the orbital C. The orientation of the orbital D. The spin of the electron
13	Which of the following statements is no correct regarding bonding molecular orbitals?	A. Bonding molecular orbitals possess less energy than atomic orbitals from which they are formed. B. Bonding molecular orbitals have low electron density between the two nuclei. C. Every electron in bonding molecular orbitals contributes to the stabilization of the molecule. D. Bonding molecular orbitals are lower in energy than the atomic orbitals from which they are formed.

attraction b.w atoms.
D. Bonding molecular orbitals are formed when the electron waves undergo constructive interference.

14	The velocity of photon is:	A. Independent of its wavelength. B. Depends on its wavelength. C. Equal to square of its amplitude D. Depends on its source.
15	Specific gravity of HNO ₃ is	A. 1.35 B. 1.53 C. 1.39 D. 1.93
16	The three N - H σ -bonds are made by	A. sp ³ - s overlap B. sp ² - s overlap C. P - p overlap D. sp - overlap
17	The movement of molecules from a region of high pressure to vacuum is called :	A. Evaporation B. Effusion C. Conduction D. Difusion
18		A. 0.5 B. 4.0 C. 2.5 D. 0.25
19	Reaction of Griganard's reagent with CO ₂ gives:	A. Aldehyde B. Pri-alcohol C. Sec-alcohol D. Carboxylic acid
20	Which of the following reagents is used to distinguish acetone and acetophenone	A. NaHSO ₃ B. Grinard reagent C. Na ₂ SO ₄ D. NH ₄ Cl