NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Vital force theory was rejected by	A. Berzelius B. Kolbe C. Wholer D. Lavoiser
2	Which is not a colligative property?	A. Osmotic pressure B. Lowering of vapour pressure C. Depression of freezing point D. Elevation of boiling point
3	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
4	Which of the following pairs are chemically dissimilar?	A. Na and K B. Ba and Sr C. Zr and Hf D. Ca and Zn
5	If a salt bridge is removed between the two half cells the voltage	A. Drops to zero B. Does not change C. Increases gradually D. Increases rapidly
6	The number of oxygen atoms in 4.4 g of CO_2 is approximately	A. 1.2 x 10²³ B. 6 x 10²² C. 6 x 10²³ D. 12 x 10²³
7	Addition of iron filling to $CuSO_4$ solution caused precipitation of Cu awing to the	A. Reduction of Cu²⁺ B. Oxidation of Cu²⁺ C. Reduction of Fe D. Reduction of Fe³⁺
8	Water (H2O) is liquid while hydrogen sulphide (H_2S) is a gas because	A. Water has higher molecular weight B. Hydrogen sulphide is a weak acid C. Sulphur has high electronegativity than oxygen D. Water molecules associate through hydrogen bonding.
9	The pore size of the filter paper depends upon	A. Nature of the medium B. Temperature of the medium C. Size of the particles D. Mass of the particles
10	The most reactive compound for electrophilic nitration will be	A. Benzyl chloride B. Benzoic acid C. Nitrobenzene D. Chlorobenzene
11	Inert pair effect plays an important role in case of	A. F B. Al C. Si D. Tl
12	Among alkali metal salts,the lithium salts are the poorest conductors of electricity in aqueous solution because of	A. Easy diffusion of Li⁺ ions B. Lower ability of Li⁺ ions to polarize water molecules C. Lowest charge to radius ratio D. Higher degree of hydration of Li⁺ ions.
13	SO_2 and NO_2 pollution by increasing	A. Alkalinity B. Acidity C. Neutrality D. Buffer action
14	Crystal can be classified in to basic crystal habits	A. 7 B. 4 C. 14 D. 3

15	Potassium is kept in	A. Water B. Ammonia C. alcohol D. Kerosene E.
16	Which of the following compounds has the lowest anion to cation size ratio?	A. LiF B. NaF C. CsI D. CsF
17	Red lead is	A. PbO B. Pb₃O₄ C. Pb O ₂ D. Pb ₄O ₃
18	How many kinds of space lattices are possible in a crystal?	A. 23 B. 7 C. 230 D. 14
19	The kinetic theory of gases predicts that total kinetic energy of a gaseous assembly depends on	A. Pressure of the gas B. Temperature of the gas C. Volume of the gas D. Pressure temperature and volume of the gas
20	For the carbylamine reaction we need hot alc.KOH and	A. Any amin and chloroform B. Chloroform and Ag powder C. A primary amine and chloroform D. A mono alkyl amine and trichlorom-ethane