NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Tollen's reagent is	A. Ammonical cuprous chloride B. Ammonical cuprous oxide C. Ammonical silver bromide D. Ammonical silver nitrate
2	Most common reactions of benzene and its derivatives are	A. Electrophilic addition reactions B. Electrophilic substitution reactions. C. Nucleophilic addition reactions D. Nucleophilic substitution reactions
3	Which of the following has greatest reducing power?	A. HI B. Hbr C. HCl D. HI
4	Carbon monoxide is pollutant as it	A. Inactivates nerves B. Inhibits glycolysis C. Combines with oxygen D. Combines with hemoglobin
5	Which one is not usually used for the crystallization	A. Acetone B. Acetic acid C. Sulphuric acid D. Chloroform
6	Ammonia gas used directly as a fertilizer is injected into the soil at a depth of about	A. Two inches B. Three inches C. Five inches D. Six inches
7	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
8	The rate at which a substance reacts depends on its	A. Atomic weight B. Equivalent weight C. Molecular weight D. Active mass
9	The total number of protons in 10 g of calcium carbonate is (N_o = 6.023 x 10^{23})	A. 1.5057 x 10²⁴ B. 2.0478 x 10²⁴ C. 3.0115 x 10²⁴ D. 4.0956 x 10²⁴
10	Among the alkaline earth metals the element forming predominantly covalent compounds is	A. Be B. Mg C. Sr D. Calcium
11	Which metal is protected by a layer of its own oxide?	A. Al B. Ag C. Au D. Fe
12	Which of the following value of ΔHf° represent that the product is least stable?	A. -94.0 kcal mol⁻¹ B. -231.6 kcal mol⁻¹ C. +21.4 <span style="font-size:

		14.44444465637207px;">kcal mol⁻¹ D. +64.8 kcal mol⁻¹
13	$\Delta H_{Neutralisation}$ is always	A. Positive B. Negative C. Zero D. Positive or negative
14	The valence orbital configuration of an element with atomic number 23 is	A. 3d⁵ B. 3d³, 4s² C. 3d³,4s¹,4p¹ D. 3d²,4s²,4p¹
15	An endothermic reaction is one in which	A. Heat is converted into electricity B. Heat is obsorbed C. Heat is evolved D. Heat is converted into mechanical work
16	Which of the following with aqueous KOH will give acetaldehyde?	A. 1,2-Dichloroethane B. 1, 1-Dichloroethane C. Chloroacetic acid D. Ethyl chloride
17	When sulphur is boiled with Na_2SO_3 solution the compound formed is	A. Sodium sulphides B. Sodium sulphates C. Sodium persulphate D. Sodium thiosulphate
18	Dehydration of glycerol give	A. Propane B. Propene C. Acrolein D. Benzene
19	Which of the following statements is most appropriate about effective nuclear charge? It depends upon	A. The shielding constant B. The atomic number C. The charge on the nucleus D. Both the nuclear charge and the shielding constant
20	Which of the following cannot be produced by acidic dehydration of alcohols?	A. Ethers B. Aldehyde C. Alkyl Hydrogen sulphate D. Alkene