NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	The freezing point of 1 molal NaCl solution assuming NaCl to be 100% dissociated in water in	A. -1.86°C B. -3.72°C C. +1.86°C D. +3.72°C
2	Ethyl chloride on treatment with aqueous alkali gives	A. Ethane B. Ethene C. Ethanal D. Ethanol
3	For preparing an alkane, a concentrated aqueous solution of sodium or potassium salt of saturated carboxylic acid is subjected to	A. Hydrolysis B. Oxidation C. Hydrogenation D. Electrolysus
4	Which of the substances Na, Hg, S Pt and graphic can be used as electrodes in electrolytic cells having aqueous solution?	A. Na,Pt and graphite B. Na and Hg C. Pt and graphite only D. Na and S only
5	According to MO Theory the species O^{+}_{2} possesses	A. Bond order of 2.5 B. Three unpaired electrons C. Diamagnetic character D. Stability lower then O₂
6	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
7	The credit of discovering neutron goes to	A. Rutherford B. Langmuir C. Chadwick D. Austen
8	Enzymes are	A. Proteins B. Mineral C. Oils D. Fatty acids
9	Galena is an ore of	A. Gallium B. Lead C. Tin D. Germanium
10	The substance used as a smoke screen in warfare is	A. SiCl₄ B. PH₃ C. PCl₅ D. Acetylene
11	The heats evolved in combustion of rhombic and monoclinic sulphur are - 70960 and - 71030 cal mol^{-1} respectively what will be heat of conversion of rhombic sulphur ti monoclinic?	A. 70960 calories B. 71030 calories C. -70 calories D. +70 calories
12	The valence orbital configuration of an element with atomic number 23 is	A. 3d⁵ B. 3d³, 4s² C. 3d³,4s¹,4p¹ D. 3d²,4s²,<span style="font-size:

		14.444444656372O7px;">4p¹
13	Leblanc process is employed in the manufacture of	A. Baking soda B. Washing soda C. Potash D. Plaster of paris
14	Carbon monoxide is pollutant as it	A. Inactivates nerves B. Inhibits glycolysis C. Combines with oxygen D. Combines with hemoglobin
15	Natural fertilizer provides potassium in the form of K_2O (potash)	A. 1.5 kg B. 3 kg C. 4.5 kg D. 6.5 kg
16	Calcium cyanamide on treatment with steam under pressure gives NH_3 and	A. Calcium carbonate B. Calcium hydroxide C. Calcium oxide D. Calcium bicarbonate
17	The percentage of nitrogen in urea is	A. 46 B. 60 C. 70 D. 80
18	Which of the following fluorides does not exist?	A. NF₅ B. PF₅ C. AsF₅ D. SbF₅
19	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
20	The movement of solvent molecules through a semipermeable membrane is called	A. Electrolysis B. Electrophoresis C. Osmosis D. Cataphoresis