

NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	An electrolyte	A. Forms complex ions in solution B. Gives ions only when electricity is passed C. Possesses ions even in solid state D. Gives ions only when dissolved in water
2	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
3	The spectrum of helium is expected to be similar to that of	A. H B. Li ⁺ C. Na D. He ⁺
4	The rate at which a substance reacts depends on its	A. Atomic weight B. Equivalent weight C. Molecular weight D. Active mass
5	The alkali metal which is liquid at 15°C is	A. K B. Cs C. Na D. None
6	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.
7	What quantity of limestone (CaCO ₃) on heating will give 56 kg of CaO?	A. 1000 kg B. 56 kg C. 44 kg D. 100kg
8	Dehydration of glycerol give	A. Propane B. Propene C. Acrolein D. Benzene
9	Fluorine does not show positive oxidation states due to the absence of	A. d-orbitals B. s-orbitals C. p-orbitals D. None
10	During the folding of filter paper the apex form angle of about	A. 80° B. 60° C. 180° D. 90°
11	The carbon atoms in calcium carbide are held by	A. Ionic bonds B. 2 sigma bonds C. 2 covalent one co-ordinate bond D. 2π and oneσ bond
12	The effect of increasing the pressure on the following equilibrium 2A + 3B ⇌ 3A + 2B is	A. Forward reaction is favoured B. Backward reaction is favoured C. No effect D. None of the above
13	An endothermic reaction is one in which	A. Heat is converted into electricity B. Heat is absorbed C. Heat is evolved D. Heat is converted into mechanical work
14	The symbol of the element whose atoms have the outer most electronic configuration 2s ²	A. N B. Li C. - D. -

	$2p^3$ is	C. P D. Na
15	The bond angle H - O - H in ice is closest to	A. 120° , 28° B. 60° C. 90° D. 109°
16	The wire in the flash bulbs is made up of	A. Mg B. Ba C. Cu D. Ag
17	The reference calomel electrode is made from which of the following?	A. $ZnCl_2$ B. $CuSO_4$ C. Hg_2Cl_2 D. $HgCl_2$
18	Sulphure dioxide affects	A. Cell wall B. Plasmodesmata C. All membrane systems D. Nucleus
19	The maximum number of electrons in a subshell for which $l = 3$ is	A. 14 B. 10 C. 8 D. 4
20	Which of the following species participate in sulphonation of benzene ring?	A. H_2SO_4 B. HSO_3^- C. SO_3 D. SO_2