

NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	Setting of plaster of paris involves	A. Oxidation with atmospheric oxygen B. Combination with atmosphere C. Dehydration D. Hydration to yield another hydrate.
2	A clathrate may be defined as a	A. Cage compound B. Liquid crystal C. Mixture D. Solid solution
3	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 than O_2
4	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
5	Addition of iron filling to $CuSO_4$ solution caused precipitation of Cu owing to the	A. Reduction of Cu^{2+} B. Oxidation of Cu^{2+} C. Reduction of Fe D. Reduction of Fe^{3+}
6	Which of the following is a molecular disease?	A. Allergy B. Cancer C. German measles D. Sickle cell anemia
7	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. Electrolysis
8	Which of the following fluorides of xenon is impossible?	A. XeF_2 B. XeF_3 C. XeF_4 D. XeF_6
9	Formic acid is obtained when	A. Calcium acetate is heated with conc. H_2SO_4 B. Calcium formate is heated with calcium acetate C. Glycerol is heated with oxalic acid D. Acetaldehyde is oxidized with K_2CrO_7 and H_2SO_4
10	Which of the following is not present in RNA?	A. Uracil B. Thymine C. Ribose D. Phosphate
11	Vitamin A is present in	A. Liver B. Milk C. Green vegetables D. All
12	The bond angle H - O - H in ice is closest to	A. 120° , 28° B. 60° C. 90° D. 109°
13	Which has maximum protein content?	A. Ground nut B. Cow milk C. Egg D. Wheat
14	By using the fluted filter paper rate of filtration is	A. Increased B. Decreased C. Filtration is constant

		D. Having no effect
15	1 mole of CH ₄ contains	A. 6.02×10^{23} atoms of H B. 4 g-atom of hydrogen C. 1.81×10^{23} molecules of CH ₄ D. 3.0 g of carbon
16	Vital force theory was rejected by	A. Berzelius B. Kolbe C. Wholer D. Lavoiser
17	Which of the following substances is used as an antiknock compound?	A. Tetraethyl lead B. Lead tetrachloride C. Lead acetate D. Ethyl acetate
18	The equilibrium $\text{Cr}_2\text{O}_7^{2-} \rightleftharpoons 2\text{CrO}_4^{2-}$ is shifted to right in	A. An acidic medium B. A basic medium C. A neutral medium D. It does not exist
19	The number of atoms contained in 11.2 L of SO ₂ at S.T.P are	A. $\frac{3}{2} \times 6.02 \times 10^{23}$ B. $2 \times 6.02 \times 10^{23}$ C. 6.02×10^{23} D. $4 \times 6.02 \times 10^{23}$
20	Which of the following mineral does not contain Al?	A. Cryolite B. Mica C. Feldspar D. Fluorspar