

NAT I Medical

Sr	Questions	Answers Choice
1	Natural fertilizer from plants and animals provide nitrogen	A. Hydrolysis B. Oxidation C. Hydrogenation D. Electrolysis
2	A clathrate may be defined as a	A. Cage compound B. Liquid crystal C. Mixture D. Solid solution
3	Boyle's law is applicable in	A. Isochoric process B. Isothermal process C. Isobaric process D. Isotonic process
4	A cell constant is generally found by measuring the conductivity of aqueous solution of	A. Temperature is decreased B. Solution constant is increased C. Number of solute molecules are increased D. Volume is increased
5	Sodium metal cannot be stored under	A. Benzene B. Kerosene oil C. Alcohol D. Toluene
6	The angle between rectangular components of a vector is	A. 0° B. 60° C. 90° D. 120°
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	When electricity is passed through molten Al ₂ O ₃ + Na ₃ AlF ₆ and 13.5 gms Al are deposited, the number of faraday must be	A. Melting point B. Osmotic pressure C. Freezing point D. Sublimation temperature
9	Benzene is obtained by fractional distillation of	A. Heavy oil B. Anthracene oil C. Middle oil D. Light oil
10	Fertilizer are made by	A. Nature only B. Artificial methods only C. Both artificial and natural methods D. None of the above
11	The spectrum of helium is expected to be similar to that of	A. H B. Li⁺ C. Na D. He⁺
12	The maximum number of electrons in a subshell for which l = 3 is	A. 14 B. 10 C. 8 D. 4
13	A capacitor acts as an infinite resistance for	A. AC B. DC C. Both AC and DC
14	For the reaction 2A(g) + B(g) ⇌ 3C(g) + D(g) two moles each of A and B were taken into a flask. The following must always be true when the system attained equilibrium	A. [A] = [B] B. [A] < [B] C. [B] = [C] D. [A] > [B]
15		A. Stress B. Strain C. Velocity

15	Which of the modulus of elasticity is involved in compressing a rod to decrease its length?	D. Surface tension E. $\text{Cosec}^4 \theta - \text{Cosec}^2 \theta$
16	Which of the following is not thermo dynamical function?	A. Enthalpy B. Work done C. Gibb's energy D. Internal energy
17	Angular momentum is	A. Vector (axial) B. Vector (polar) C. Scalar D. None of these
18	What remains constant in the field of central force?	A. Potential energy B. Kinetic energy C. Angular momentum D. Linear momentum E. $3x - 7/x^2 + 4$
19	Phosphide ion has the electronic structure similar to that of	A. Liter sec^{-1} B. $\text{Liter} \cdot \text{mol}^{-1} \cdot \text{sec}^{-1}$ C. $\text{Mol liter}^{-1} \cdot \text{sec}^{-1}$ D. $\text{Mol} \cdot \text{liter}^{-1} \cdot \text{sec}^{-1}$
20	In a reversible chemical reaction having two reactants in equilibrium if the concentration of the reactants are doubled then the equilibrium constant will	A. Also be doubled B. Be halved C. Becomes one fourth D. Remains the same