

NAT I Medical

Sr	Questions	Answers Choice
1	For obtaining appreciable extension the wire should be	A. $1 ⁻²$ B. $1 ⁻¹$ C. 1 D. $1 ²$
2	Electrons in the atom are held in the atom due to	A. Ultraviolet B. Infra red C. Visible D. X-ray
3	Al is more reactive than Fe but Al is less easily corroded than Fe Because	A. It is a noble metal B. Oxygen forms a protective reaction easily with water C. Iron undergoes reaction easily with water D. Fe form mono and divalent ions.
4	When the displacement is half of the amplitude the ratio of potential energy to the total energy is	A. 1/2 B. 1/4 C. 1 D. 1/8
5	The formula of nitre is	A. KNO_3 B. $NaNO_3$ C. NaCl D. Na_2CO_3
6	A particle moves along a circular path under the action of a force. The work done by the force is	A. Zero B. Positive and non-zero C. Negative and non zero D. None of above
7	$BiCl_3$ on hydrolysis forms a white precipitate of	A. Using a catalyst B. Increasing temperature C. Increasing the activation energy D. Increasing the conc. of reactants
8	If two non-zero vector \vec{A} and \vec{B} are parallel to each other, then $\vec{A} \cdot \vec{B}$ is equal to	A. Zero B. AB C. $A + B$ D. $A - B$
9	When sound waves travel from air to water which of these remains constant?	A. Velocity B. Frequency C. Wavelength D. All the above E. 2×5^o
10	Which one of the following compounds does not exist?	A. Increases as the reaction proceeds B. Decreases as the reaction proceeds C. May increases or decreases during the reaction D. Remains constant as the reaction
11	The number of electrons in the M shell of the element with number 24 is	A. 24 B. 12 C. 13 D. 8
12	Alum is not used	A. As a mordant in dyeing B. As an insecticide C. In purification of water D. In tanning of leather
13	A body is dropped from a tower with zero velocity reaches ground in 4s. The height of the tower is about	A. 80 m B. 20 m C. 160 m D. 40 m

D. 40 m

14	In an L-R circuit time constant is that time in which current grows from zero to the value	A. 0.63 B. 0.50 C. 0.73 D. 0.707
15	Which of the following lists of physical quantities consists only of vectors:	A. Time, temperature, velocity B. Force, volume, momentum C. Velocity, acceleration, mass D. Force, acceleration, velocity
16	Which is not a colligative property?	A. -1.86°C B. -3.72°C C. +1.86°C D. +3.72°C
17	Which of the following belongs to the halogen family?	A. Francium B. Polonium C. Radium D. Astatine
18	Detergents are	A. Catalytic hydrogenation of alkanes B. Wurtz reaction C. Hydrolysis of alkyl magnesium bromide D. Dehydrohalogenation of an alkyl halide.
19	Octane number is zero for	A. n-Heptane B. Isooctane C. n-Hexane D. Isoheptane
20	A (100 W, 200 V) bulb is connected to a 160 V power supply. The power consumption would be	A. 64 W B. 80 W C. 100 W D. 125 W