

NAT I Medical Physics

Sr Questions When a Na ion and a CI ion are placed in air a force F acts between them when they are separated by a distance of 1 cm from each other the permittivity of air and the dielectric constant of water are ε ₀ and K respectively When a piece of salt is placed in water then the force between Na* and Cr ions separated by a distance of 1 cm will be Two point charges placed at distance of 20 cm in air repel each other with a certain force. When a dielectric slab of thickness 8 cm and dielectric constant K is introduced between these point charges force of interaction becomes half of its previous value Then K is approximately. A point charge Q is placed at the mid-point of a line joining two charges 4q and q. if the net force on charge q is zero, then Q must be equal to A - q B. + q C2q D. +4q In a Millikan's oil drop experiment the charge on an oil drop is calculated to be 6.35 x 10-19 B. 4 C. 4.2 D. 6 Two point charge +3μC and +8μC repel each other with a force of 40 N. if a charge of -5μC B. + 10N C. +20N D20N What is the average energy of N molecules of monoatomic gas? A - 10N B. +10N C20N D5/2 NkT B. NkT C. 3/2 NkT D. 5/2 NkT				
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6 What is the average energy of N molecules of monoatomic gas? B. NkT C. 3/2 NkT D. 5/2 NkT A. 1/4				B. +10N C. +20N
D. 4	What is	,		B. NkT C. 3/2 NkT
7 What is the ratio of r.m.s velocity for O_2 to H_2 ?	What is	,	What is the ratio of r.m.s velocity for ${\sf O_2}$ to ${\sf H_2}$?	B. 4 C. √4 : 1
8 At 0° K which of the following properties of a gas will be zero? A. Kinetic energy B. Potential energy C. Vibrational enegy D. Density	At 0° K		At 0° K which of the following properties of a gas will be zero?	B. Potential energyC. Vibrational enegy