

## NAT I Medical Physics

Sr	Questions	Answers Choice
1	The product of the pressure and volume of an ideal gas is	A. A constant B. Approximately equal to the universal gas constant C. Directly Proportional to its temperature D. Inversely proportional to its temperature
2	Boyle's law is applicable in	A. Isochoric process B. Isothermal process C. Isobaric process D. Isotonic process
3	Absolute temperature can be calculated by	A. Mean square velocity B. Motion of the molecule C. Both (A) and (B) D. None of these
4	Which of the following is not thermo dynamical function?	A. Enthalpy B. Work done C. Gibb's energy D. Internal energy
5	At constant volume temperature is increased then	A. Collision on walls will be less B. Number of collisions per unit time will increase C. Collisions will be in straight lines D. Collisions will not change
6	The number of translation degrees of freedom for a diatomic gas is	A. 2 B. 3 C. 5 D. 6
7	Relation between pressure (P) and energy (E) of a gas is	A. $P = \frac{2}{3} E$ B. $P = \frac{1}{3} E$ C. $P = \frac{3}{2} E$ D. $P = 3 E$
8	Huygen's wave theory of light cannot explain	A. Diffraction B. Interference C. Polarization D. Photoelectric effect