

## NAT I Engineering Physics

Sr	Questions	Answers Choice
1	The angle between rectangular components of a vector is	A. 0° B. 60° C. 90° D. 120°
2	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
3	Which of the following is the only vector quantity	A. Temperature B. Energy C. Power D. Momentum
4	Which of the following is a scalar quantity	A. Density B. Displacement C. Torque D. Weight
5	Which of the following is equal to: joule x ohm / volt x second ?	A. Ampere B. Volt C. Watt D. Tesla
6	The velocity $v$ of a particle at time $t$ is given by: $v = at + b / t + c$ The dimensional formula of $a, b$ and $c$ are respectively:	A. $L^{2/2}$ ; $T$ and $LT^{2/2}$ B. $LT^{2/2}$ ; $LT$ and $L$ C. $LT^{2/2}$ ; $LT$ and $L$ D. $L$ ; $LT$ and $T$
7	The volt/metre is the unit of:	A. Potential B. Work C. Force D. Electric field intensity
8	The sieman is the SI unit of	A. Resistance B. Specific Resistance C. Conductance D. Inductance
9	The motion without consideration of its cause is studied in:	A. Kinematics B. Mechanics C. Statics D. Modern Physics
10	The unit of inductance is equivalent to	A. $V \times s/A$ B. $V \times A/s$ C. $A \times s/v$ D. $V/A \times s$