PPSC Physics Chapter 1 MECHANICS

Sr	Questions	Answers Choice
1	The SI unit of torque is	A. kg ms-2 B. kg m2s-2 C. kg ms-1 D. kg m2 s-3
2	The dimensions of force are.	A. [MLT-2] B. [MLT-1] C. [M,-1T-2] D. [M-2T-2]
3	Which of the following SI units is not named after any physicist.	A. Hertz B. Joule C. Volt D. Candala
4	Which one of the following pairs does not have the same dimensions.	A. Force and weigfht B. Pressure and stress C. Capacitance and resistance D. Energy and work
5	Which one of the following does not have the same dimenstions.	A. Energy ,work, heat B. Pressure, stress, Young's modulus C. Voltage, electromotive force, potential difference D. Electric flux, electric field, electric dipole moment
6	The pascal is not the SI derived unit of.	A. Pressure B. Stress C. work D. Tensile strength
7	Which one of the following is not a dimensionless quantity.	A. Radian B. pi C. Decibel D. Force
8	Which of the following is not a unit of plane angle.	A. Degree B. Radian C. Gradian D. Steradian
9	Candela is the SI base unit of.	A. illuminance B. Luminous flux C. Luminous intensity D. Radiant energy
10	Which of the following is not SI base unit.	A. kilogram B. Ampere C. Coulomb D. Mole
11	MT-2 is the dimensionless formula of.	A. Moment of iniertia B. Viscosity C. surface tension D. Angular acceleration
12	What are the dimensions of coefficient of velocity of	A. [MLT-1] B. [ML-1T-1] C. [ML-2T-1] D. [MLT-2]
13	The dimensions of moment of inertia are	A. [ML2] B. [MLT-1] C. [ML2T-1] D. [ML-1T-2]
14	The dimensions of torque are.	A. [MLT-2] B. [ML-1T-1] C. [ML2T-2] D. [ML-2]
15	The dimensions of universal gravitational constant G are.	A. [MLT-2] B. [ML -2T-2] C. [M-1L2T-2]

		D. [ML-1T-1]
16	One light year is equal to.	A. 9.46 x 10¹⁵ cm B. 9.46 x 10¹⁵ m C. 9.46 x 10¹⁵ km D. 7.88 x 10¹⁴ m
17	Light year is a unit of	A. Light B. Velocity C. Time D. Distance
18	The SI unit of solid angle is	A. Degree B. Radian C. Steradian D. Candala
19	The fundamental quantities which form the base of the SI are.	A. mass, energy and time B. mass, force and time C. mass, length and time D. mass , length and time
20	Which of the following pair of physical quantities have the same dimension.	A. Momentum and pressure B. Energy and work C. Linear and angular momentum D. Force and surface tenstion