

PPSC Physics Topic 1 Mechanics

Sr	Questions	Answers Choice
1	For which of the following objects is the centre of mass equidistant from every point on its surface	A. An unsharpened pencil B. A gramophone record C. An egg D. A table tennis ball
2	Distance covered by a freely falling body in 2 s will be.	A. 19.6 m B. 4.m C. 39.2 m D. 44.1 m
3	In simple harmonic motion we have the conservation of.	A. K.E. B. P.E C. Total energy D. Electrical energy
4	The process where by energy is dissipated from the oscillating system is called.	A. Resonance B. Damping C. Forced oscillation D. Free oscillation
5	In planetary motion	A. Angular speed remains constant B. Angular momentum remains constant C. Linear speed remains constant D. Linear momentum remains constant
6	The magnitude of the instantaneous velocity is called the.	A. Displacement B. Speed C. Acceleration D. Length
7	A body of mass 2 kg is suspended from the ceiling of an elevator moving up with an acceleration 'g' its apparent weight in the elevator will be.	A. 9.88 N B. 19.8 N C. 29.4 N D. 39.2 N
8	Periodic motion is a motion.	A. Under the influence of an elastic restoring force B. That repeats it self in equal intervals of time C. Back and forth over the same path D. With constant acceleration
9	In any collision between two bodies there need nor the conservation of	A. Linear momentum B. Angular momentum C. Total energy D. Kinetic energy
10	A body is equilibrium may not have	A. Momentum B. Velocity C. acceleration D. K.E.
11	Which of the following is dimensionless.	A. Strain B. Stress C. Pressure D. Volume
12	If there are no frictional effects, the mechanical energy of a system executing simple harmonic motion.	A. Changes with time B. Is variable C. Is constant D. Is not conserved
13	On the ground the gravitational force on a satellite is W What is the gravitational force on the satellite when at height R/50	A. 0.96 W B. 0.98 W C. 1.04 W D. 1.02 W
14	The acceleration due to gravity	A. Has the same value everywhere in space B. Has the same value every where on the earth C. varix with altitude on the earth D. Is not constant

		D. is great her on the moon owing to its smaller diameter
15	The rate of change of angular momentum of a body is equal to.	A. Applied force B. Moment of inertial C. Applied torque D. Impulsive force
16	Inertial mass and gravitational mass are	A. Opposite B. Proportional C. Weights D. Inversely proportional
17	The maximum height reached by a projectile with a velocity of 14 m s ⁻¹ at an angle of 30° with the horizontal is.	A. 1.5 m B. 2.5 m C. 1 m D. 2 m
18	If a body a moving with constant acceleration the velocity time graph will be a	A. zig zag B. Straight line C. Constant value D. zero value
19	The value of 'g' is affected by earth's	A. Non spherical shape B. Daily motion C. Volume D. Density
20	The international acceptable scientific notation of a number 123.4 is	A. 12.34×10^1 B. 1.234×10^2 C. 1.234×10^3 D. 0.123×10^3