

PPSC Physics Topic 1 Mechanics

Sr	Questions	Answers Choice
1	A body is termed as perfectly elastic if.	A. It can move freely B. Its surface is perfectly smooth C. It is not affected by an external force D. It recovers the original shape when the deforming force is removed
2	A force of 50 N acts on a body for 10 s the change in momentum will be.	A. 5 N s B. 200 Ns C. 500 Ns D. 800 N s
3	Restoring force in SHM is.	A. Centripetal B. Frictional C. Conservative D. Non conservative
4	Original source of biomass is.	A. Stars B. Moon C. earth D. Sun
5	The point of which the whole weight of the body acts	A. zero point B. Centre of mass C. Centre of gravity D. Equilibrium
6	A body of mass 3 kg lies on the surface of the table 2 m high it is moved on the surface 4 m the change in P.E. will be.	A. 9.8 J B. 6 J C. Zero D. 329 J
7	In microwave ovens, heating is produced by the phenomena of	A. Reflection B. Refraction C. Damped oscillations D. Resonance
8	A ball mass 0.25 kg is thrown to a height of 20 m The change in G.P.E is	A. 49 J B. 50 J C. -75 J D. 500 J
9	When speed of a moving body becomes double.	A. Its K.E. is doubled B. Its acceleration is doubled C. Its P.E. is doubled D. Its momentum is double
10	The centre of mass of a system is a point where an applied force causes the system to move.	A. With rotation B. Without rotation C. Fastly D. Slowly
11	One radian is equal to	A. 57.3 ^o B. 67.3 ^o C. 60 ^o D. 87.3 ^o
12	A body of mass 2 kg is suspended in a elevator by means of a spring The balance reads its weight when the elevator moves up with an acceleration of 5 m s ⁻² as.	A. 9.8 N B. 29.6 N C. 26.5 N D. 30.5 N
13	The magnitude of the resultant of two forces may be increased by	A. Increasing the angle between them B. Decreasing the angle between them C. Drawing the parallelogram to represent them D. Drawing the force perpendicularly
14	Which of the following is dimensionless.	A. Strain B. Stress C. Pressure D. Volume

15	Which of the following is the magnitude of the gravitational force and is not the inherent property of the body.	A. Mass B. Weight C. Speed D. Length
16	Which of the following is a unit of electric field strength.	A. C m^{-1} B. V m^{-2} C. N C^{-1} D. N V^{-1}
17	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
18	The scalar product of two vectors is negative when	A. Vectors are parallel B. Vectors are antiparallel C. Vectors are perpendicular D. Vectors are parallel with same magnitude
19	A body is in a static equilibrium, only when it is	A. Moving with uniform velocity B. Moving with variable velocity C. Moving with uniform acceleration D. at rest
20	The ratio of inertial mass to gravitational mass is.	A. 1 B. 0.5 C. 2 D. 3