

PPSC Physics Topic 1 Mechanics

Sr	Questions	Answers Choice
1	The reluctance of a body to start moving is called.	A. Mass B. Weight C. Force D. Inertia
2	Which of the following will not acceleration.	A. The moon in its orbit B. A tennis ball rebounding from ground C. A stone in free fall D. A car in which the engine thrust is equal to the friction
3	If the presence of air friction, the path of a projectile appears as.	A. Straight line B. Parabola C. Hyperbola D. zig zag
4	Ethanol is a replacement of	A. Gasoline oil B. Kerosene oil C. Refinery oil D. vegetable oil
5	The centre of the sun produces a large amount of energy what is the source of this energy.	A. Chemical reaction B. Nuclear fission C. Nuclear fusion D. Radioactive decay
6	The product of force and duration of impact is called.	A. Density B. Momentum C. Torque D. Impulse
7	By decreasing angle between two vectors their cross product.	A. Increases B. Decreases C. Remains the same D. Vanishes
8	A ball is thrown straight up when the ball reaches the highest point.	A. Both is velocity and acceleration are zero B. In velocity is zero but acceleration is not zero. C. Its acceleration is zero but velocity is not zero. D. Neither velocity nor acceleration is zero.
9	In an isolated system, total energy of the vibrating's mass and spring is	A. Low B. High C. Constant D. Variable
10	In the case of forced oscillations frequency of oscillation is.	A. The natural damped frequency B. The natural undamped frequency C. The frequency of the external periodic force D. Some other frequency
11	When net force acting on a system is zero which of the following will be constant.	A. Force B. Linear momentum C. Angular momentum D. Linear impulse
12	The force of friction that comes into action after the motion has started	A. Static friction B. Dynamic friction C. Friction only D. Limiting friction
13	If a force of 50 N is acting along x axis, then its component along y-axis will be.	A. Zero B. The same C. Of the half magnitude D. Of the double magnitude
14	Which of the following quantity is zero about the centre of mass of body.	A. Mass B. Acceleration C. Moment

		D. Angular momentum
15	The moment of inertia of a body comes in action in	A. Circular motion B. Straight line motion C. Curved path D. zig zag motion
16	Newton's first law of motion provides the definition of.	A. Distance B. Force C. Vector D. Acceleration
17	The corss product of two vectors is zero when they	A. Are parallel to each other B. Are perpendicular to each other C. Are at an angle of 120 ⁰ D. Both are equal
18	What is the period of geostationary satellite.	A. 6 hours B. 12 hours C. 18 hours D. 24 hours
19	Which quantity has dimensions different from the others.	A. Energy per unit volume B. Force per unit area C. Angular momentum per unit mass D. Pressure
20	The gravitational strength on the surface of moon is 1.6 N kg ⁻¹ What will be the mass and weight of an object respectively on the surface of the moon.	A. 10 kg , 1.6 N B. 10 Kg , 16 N C. 16 Kg, 10 N D. 16 kg, 160 N