

Physics 9th Class English Medium Unit 4 Online Test

Sr	Questions	Answers Choice
1	If a body is at rest or moving with uniform rotational velocity, then torque acting on the body will be.	A. Zero B. Maximum C. Minimum D. Infinite
2	When line of action of the applied force passes through its pivot point then moment of force acting on the body is	A. Maximum B. Minimum C. Infinite D. Zero
3	A seesaw balances perfectly with two children of equal weight sitting at equal distances from the fulcrum. If one child moves closer to the fulcrum.	A. The seesaw topples B. The seesaw tips towards the child who stayed further away C. The seesaw tips towards the child who moved closer D. The seesaw remains balanced
4	Centripetal force is given by	A. rF B. $\frac{mv^2}{r}$ C. $\frac{mv}{r^2}$ D. $r F \cos \theta$
5	A cylinder resting on its circular bases is in	A. Neutral equilibrium B. Stable equilibrium C. Unstable equilibrium D. None of these three
6	The centre of mass of a body	A. Lies always inside the body B. May lie within, outside or on the surface C. Lies always on the surface of the body D. Lies always on the surface of the body.
7	In stable equilibrium the centre of gravity of the body lies.	A. At the highest position B. At any position C. Outside the body D. At the lowest position
8	A man walks on a tight rope. He balances himself by holding a bamboo stick horizontally. It is an application of	A. Law of conservation of momentum B. Principle of moments C. Newton's third law of motion D. Newton's second law of motion
9	A shopkeeper sells his articles by a balance having unequal arms of the pans. If he puts the weights in the pan having shorter arm, then the customer.	A. Gains B. Loses C. Neither loses nor gains D. Not certain
10	Moment of force is called	A. Couple B. Moment arm C. Torque D. Couple arm
11	A force F is making an angle of 60° with x -axis. Its y -component is equal to.	A. F B. $F \cos 60^\circ$ C. $F \sin 60^\circ$ D. $F \tan 60^\circ$
12	A particle is simultaneously acted upon by two forces of 4 and 3 newtons. The net force on the particle is.	A. Between 1 N and 7 N B. 1 N C. 5 N D. 7 N