1st Year Fsc Physics Online Test

Sr	Questions	Answers Choice
1	Close orbiting satellites orbit the earth at a height of about	A. 400 km B. 4000 km C. 400 m D. 400 cm
2	The unit of rotational K.E. is	A. rAD/SEC B. Js C. J D. Kgm2
3	The relation between the speed and hoop can be written as	A. 2 B. 4 C. 1/2 D. 1/4
4	The diver spins faster when moment of inertia becomes.	A. smaller B. Greater C. Constant D. Zero
5	The amount of inertia of 10 kg hoop about the axis of rotation perpendicular to its plane having radius 5 m is	A. 50 kgm2 B. 100 K gm2 C. 150 K gm2 D. 250 K gm2
6	Angular momentum has the same unit as	A. Impulse x distance B. Power x time C. Linear x time D. work x frequency
7	In rotational motion the torque is equal to rate of change of	A. Angular velocity B. Linear momentum C. Angular momentum D. Angular acceleration
8	The product of rotational inertial 'I' and angular velocity ' w' is equal to.	A. Torque B. Linear momentum C. Angular momentum D. Force
9	The value of angular momentum is maximum when 0 is	A. 90° B. 60° C. 75° D. 45°
10	For angular momentum of system to remain constant, external torque should be.	A. Small B. Large C. Zero D. None
11	The SI unit of angular momentum is	A. J.S-2 B. J.S-1 C. J.S D. J.m
12	In rotational motion the analogous of mass is	A. Angular acceleration B. Torque C. Moment of inertia D. Angular momentum
13	The diver spin faster when moment of inertia becomes.	A. smaller B. Greater C. Constant D. Equal
14	Moment of inertia is measure din	A. Kg m2 B. Kg m-2 C. Rad s-1 D. Joule second
15	the angular version of F= ma is	A. L = 1w B. pi = 1a C. l = pi a D. f = mv/t

16	If a body revolves under centripetal force its angular acceleration is	A. Non zero B. Variable C. Increasing D. Zero
17	Which of the following is not directed along the fixed axis of rotation.	A. Angular displacement B. Angular momentum C. Centripetal acceleration D. Angular acceleration