Turning Effect of Forces

Sr	Questions	Answers Choice
1	It is more difficult to walk on a slippery surface than on a nonslipery one because of	A. Lower weight B. Increased friction C. Reduced friction D. High grip
2	A tightropw walker is carrying a long pole while walking across a rope The stability of the walker is affected if the pole is	A. Short and placed horizontally B. Long and placed horizontally C. Short and placed vertically D. Long and placed vertically
3	In stable equilibriu 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
4	A cylinder resting on its circulr bases is in	A. Neurtral equilibrium B. Stable equilibrium C. Unsatable equilibrium D. None of these three
5	A setallite of mass 'm' is revolving around the earth with an orbital speed 'v' If mass of the satellite is doubled, its orbital speed will become.	A. Double B. Half C. One fourth D. Remain the same
6	Moment of force is called	A. Couple B. Moment arm C. Torque D. Couple arm
7	The correct order of comparison for the terminal speeds of a raindrop snowflake, and hailstone is.	A. Raindrop= Snowflake = Hailstone B. Rindrop>Snow flake>Hailstone C. Hailstone>SRaindrop>Snowflake D. Snowflake>FRaindrop>Hailstone
8	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 surfce of the body D. Lies always on the sufrace of the body.
9	A body in equilibrium must not have	A. Speed B. Velocity C. Acceleeration D. Quantity of motion
10	A particle is simulataneously acted upon by two forces of a 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
11	If a body is at rest or moving with uniform rotational velocity, then torqu acting on the boyd will be.	A. Zero B. Maximum C. Minimum D. Infinite
12	You are trying to loosen a nut using a spanner, but it is not working In order to open the nut, you need to.	A. Use plastic and soft spanner B. Use a spanner of small length C. Insert a pipe to increase length of spanner D. Tie a rope with spanner
13	A seesaw balances perfectly with two children of equal weight sitting at equal distances fromt he fulcerum. If one child moves closer to the fulcrum.	A. The seesaw topples B. The seesaw tips towrds the child who stayed further away C. The seesaw tips towards the child who moved closer D. The seesaw remains balanced
		A. Static equilibrium only

14	A uniformly rotating fan is said to be in	B. Dynamic equilibrium only C. Boh in static and dynamic equilibrium D. Not in equilibrium
15	Centripetal force is given by	A. rF B. mv2/r C. mv /r2 D. r Fcos0
16	When line of action of the applied force passes through its pivot point then momet of force acting on the body is	A. Maximum B. Minimum C. Infinite D. Zero
17	The reason that a car movint on a horizontal road gets thrown out of the road while taking a turn is.	A. The reaction of ground B. Rolling friction between tyre and road C. Lack of sufficient centriptal force D. Gravitational force
18	A man walks on a tight rope. He balances hiself by holding a bamboo stick horizontally, It is an application of	A. Law of conseration of momentum B. Principle of momentums C. Newton's third law of motion D. News' second law of motion
19	The force that alwyas changes directron of velocity and not its magnitude tis called.	A. Electrical force B. Centripetal force C. Gravitational force D. Friction
20	For an objec moving with terminal velociyt, its acceleration.	A. First increasse than decreases B. Is zero C. Increass with time D. Decrease with time