riysics		
1) A torque acting on an object tends	s to produce	1)
	•	, <u></u>
B) rotation.		
C) linear motion.		
D) velocity.		
E) a center of gravity.		
m high in a 1-g region, how high o A) 1 m		2)
· · · · · · · · · · · · · · · · · · ·		
E) more than 16 m		
3) A tightrope walker more easily ba	lances on a tight wire if her pole	3)
A) is held high.	B) droops. C) is short but heavy.	
4) Strictly speaking, to weigh less in farther	the Northern Hemisphere, you should move to a location	4)
A) north (toward the pole).	B) south (toward the equator).	
C) east.	D) west.	
5) If Alex wishes to rotate his skateboard, then he must apply a		
A) torque.		
B) rotational maneuver.		
C) pause before bearing down	on the board.	
6) If you're on a Ferris wheel at a carnival, seated 10 m from the Ferris wheel's axis that makes a		
-	ar mear speed is	
E) need more information		
	1) A torque acting on an object tends A) equilibrium. B) rotation. C) linear motion. D) velocity. E) a center of gravity.  2) A swimming area in a rotating spanning in a 1-g region, how high a A) 1 m B) 2 m C) 4 m D) 16 m E) more than 16 m  3) A tightrope walker more easily bath A) is held high.  4) Strictly speaking, to weigh less in farther A) north (toward the pole). C) east.  5) If Alex wishes to rotate his skatebeach and torque. B) rotational maneuver. C) pause before bearing downs 6) If you're on a Ferris wheel at a car complete rotation each minute, you A) 10 m/min. B) 31.4 m/min. C) 62.8 m/min. D) 100 m/min.	1) A torque acting on an object tends to produce A) equilibrium. B) rotation. C) linear motion. D) velocity. E) a center of gravity.  2) A swimming area in a rotating space habitat is located in a region of 1/4 g. If a diver can jump 1 m high in a 1-g region, how high can the same diver jump in the swimming area? A) 1 m B) 2 m C) 4 m D) 16 m E) more than 16 m  3) A tightrope walker more easily balances on a tight wire if her pole A) is held high. B) droops. C) is short but heavy.  4) Strictly speaking, to weigh less in the Northern Hemisphere, you should move to a location farther A) north (toward the pole). B) south (toward the equator). C) east. D) west.  5) If Alex wishes to rotate his skateboard, then he must apply a A) torque. B) rotational maneuver. C) pause before bearing down on the board.  6) If you're on a Ferris wheel at a carnival, seated 10 m from the Ferris wheel's axis that makes a complete rotation each minute, your linear speed is A) 10 m/min. B) 31.4 m/min. C) 62.8 m/min. D) 100 m/min.

7) \_\_\_\_

7) Horses with the greatest linear speed on a merry-go-round are located

C) anywhere, because they all move at the same speed.

A) near the center.B) near the outside.

8) The famous Leaning Tower of I	Pisa doesn't topple ove	r because its center of gravity is	8)		
A) relatively low for such a	tall building.				
B) stabilized by its structure	e.				
C) displaced from its center	•				
D) above a place of support					
E) in the same place as its c					
9) You can swing your legs to and	9)				
A) straight.	B) bent.	C) same either way	, <u> </u>		
10) ml			10)		
	10) The tapered shape of the wheel rims that ride on railroad tracks allows opposite wheels to				
A) in effect, vary their diam					
B) travel at different linear	speeds for the same ro	tational speed.			
C) both of these					
D) none of these					
11)			11)		
		ut one with twice the mass. Rotational	11)		
inertia of the more massive one		D) (			
A) two times greater.		B) four times greater.			
C) the same as the other one	e.	D) half.			
12) Which of these has its center of mass where no mass exists?					
			12)		
A) baseball		B) golf ball			
C) basketball	]	D) none of the above			
13) A 1-kg rock is suspended from	the tip of a horizontal	meterstick at the 0-cm mark so that the	13)		
		rum is at the 12.5 -cm mark. From this	13)		
information, the mass of the me		rum is at the 12.5° cm mark. From this			
A) 1/4 kg.	eterotien is				
B) 1/2 kg.					
C) 3/4 kg.					
D) 1 kg.					
E) none of the above					
D) Holk of the above					
14) If the planet Jupiter underwent gravitational collapse, its rate of rotation about its axis would			14)		
A) decrease.	-	B) increase.			
C) stay the same.		D) need more information			
, ,		,			
15) For a system in mechanical equilibrium, the resultant					
A) force must be zero.		B) torque must be zero.			
C) both of these	]	D) none of these			
16) When a twirling ice skater bring	_		16)		
A) decreases.	B) remains the s	ame. C) increases.			

1 /) Stand a broom upright on the end of its pole and let it topple to the floor. Repeat, but with the bristles end on the floor. The faster fall will be the broom standing on its				
bristles end on the floor. The		ĕ		
A) pole-end.	B) bristles	-end. C) the same either way.		
18) The rotational inertia of you	ır leg is greater wher	n your leg is	18)	
A) straight.	B) bent.	C) same either way		
19) A solitary boy cannot balance on a seesaw with its fulcrum at its midpoint. If the fulcrum is				
moved to one-quarter the d	listance from the boy	y, balance is achieved when the weight of the		
boy is				
A) less than the weight of	of the seesaw.	B) equal to the weight of the seesaw.		
C) more than the weigh	t of the seesaw.	D) need more information		
20) A vertically-held sledge hammer is easier to balance when the heavier end is				
A) on your hand.				
B) at the top, away from	n your hand.			
C) same either way				