

## Conceptual Physics Exam Review Questions

### Rotational/Circular Motion

1. What is center of gravity?  
**The average position of all of an objects weight..... in other words the center of an objects weight**
2. What does center of gravity have to do with balancing?  
**support must be below the COG**
3. Which will balance better, an object w/ a low COG or a high COG?  
**Low COG**
4. Can an object have a COG that is outside of the actual object? (think of a donut)  
**Yes,..... donut, boomerang**
5. What is torque?  
**A rotational push or pull..... Force multiplied by lever arm (distance from axis)**
6. What is it easier to open a door when you push on the side away from the hinge than on the same side as the hinge?  
**Larger lever arm means more torque**
7. If you applied a torque to a meterstick that was balanced on a pivot what would happen?  
**It would rotate**
8. If you have a meterstick that is balanced on a pivot, with weights on either side of the pivot...
  - a. ....do the weights on either side have to be equal? **No**
  - b. ....do the torques on either side have to be equal? **Yes**
9. Ice skater is spinning with arms and legs out, then pulls them in tight to their center? What happens? And Why?  
**Speeds up..... Skater reduced rotational inertia which means that the rotational speed must increase. Conservation of angular momentum says that this must happen.**
10. Solid cylinder and hoop each of the same mass and radius roll down an incline.... Which will make it down the incline faster? Why?  
**Cylinder because it has a lower rotational inertia bc its mass is more concentrated toward the center**
11. A helicopter's blades are rotating clockwise during a flight, if the tail rotor then breaks, what way will the body of the helicopter rotate?  
**Counter clockwise**
12. In order to balance, the total forces on both sides of an axis of rotation need to be equal.  
**False**
13. Why will a non rotating bike wheel topple while a spinning wheel will stay upright?  
**Spinning wheel has angular momentum and since its magnitude and direction needs to be conserved it will maintain its upright position. Bc of conservation of angular momentum spinning objects are much more stable and less likely to topple**
14. Why does a tightrope walker carry a long stick?  
**In increase his rotational inertia..... this makes him resist changes in his rotational state... in other words makes him more balanced**
15. Why do cats almost always land on their feet, even when they are dropped upside down?  
**The rotate their tails and their flexible body one way and their paws rotate the other.... This allows them to turn around while still conserving their angular momentum**
16. What is "Centripetal Force"?  
**Center seeking force necessary for all circular motion**
17. An object is being swung with a string in a horizontal circle, if the string breaks, what kind of path will the object take?  
**Tangent line path away from the circular path**
18. A record is being spun about an axis going through its center, what point on the record has the greatest tangential speed? **Point on the edge** What point has the greatest rotational speed? **All the same**
19. When a gymnast moves from an extended position to a tucked position, does she increase or decrease her rotational inertia??  
**decrease**

### Gravity

# Conceptual Physics Review Answers

**M Mark**



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