## PracTest PHY.02 - Newton's Laws

## **Multiple Choice**

Identify the choice that best completes the statement or answers the question.

1.	<ul> <li>Galileo</li> <li>A. invented the telescope</li> <li>B. explained how the Earth could be moving</li> <li>C. was found innocent by the Catholic Church</li> <li>D. used the telescope to prove that the Earth was the center of all motion</li> <li>E. experimentally verified Aristotle's explanation of motion</li> </ul>										
2.	The A.	e resistance an obje inertia	ct has B. v	agains weight	t accelerati	ion is C.	called drag		D.	tension	
3.	Mass isI. a measure of the weight of an objectII. the quantity of matter in an objectIII. the extent to which an object resists constant velocityA. I onlyC. III onlyE. I and III onlyG. I, II and IIIB. II onlyD. I and II onlyF. II and III onlyH. None of these										
4.	An	An object remains at rest. We can therefore conclude									
	A. there are no forces acting on itC. there is a net force acting to the leftB. there is a net force acting to the rightD. the net force acting on it is zero										
5.	A h Dui A.	<ul><li>A heavy crate is pushed across a floor at a constant velocity. Friction is present between the crate and floor.</li><li>During this motion, the force of friction is _?_ the force pushing the crate forward.</li><li>A. greater than</li><li>B. less than</li><li>C. equal to</li></ul>									
6.	Wh	When the net force acting on an object doubles, the resulting acceleration									
	A.	quadruples		C.	remains th	ne sa	me	E. n	none of	these	
	Б.	aoubles		υ.	naives						

- 7. A marker pen with a certain mass is blown through a tube with a certain force and experiences a certain
  - acceleration. Which of the following arrangements will result in marker pen experiencing an equal acceleration?
    - A. A pen with half the mass acted on by twice the net force
    - B. A pen with twice the mass acted on by half the net force
    - C. Both of these
    - D. None of these

15. One of the demonstrations performed in class involved a dumbbell and two strings. In this demonstration I. the top string was broken when the bottom string was pulled slowlyII. the bottom string was broken when the bottom string was pulled quicklyIII. the primary principle demonstrated was inertia

A. I only C. III only E. I and III only G. I, II and III B. Hard Harles E. Hard Harles H. Nara of the

B. II only D. I and II only F. II and III only H. None of these

16. [On the Shores of the Cosmic Ocean] Mount Olympus (Olympus Mons) and Mariner Valley (Valles Marineris) can both be found on
A. Venus
B. Earth
C. Mars
D. Jupiter

- 17. [Mechanical Universe-Inertia] A ball is dropped from the top of a mast on a moving ship. The ball will hit the deck A. between the mast and the rear of the boat. B. at the base of the mast.
- 18. [Mechanical Universe-Newton's Laws] When launched as a projectile, a body's motion has two components
  - A. independent of each other.

- C. equal in magnitude and opposite in direction.
- B. related to each other by velocity. D. related to each other by gravity.