Exam			
Nama			
Name			
MULTIPLE	CHOICE. Choose the one alternative that best co	ompletes the statement or answers the quest	ion.
1) If	an apple experiences a constant net force, it will hat A) velocity. B) speed. C) acceleration. D) position. E) more than one of the above	ave a constant	1)
2) A	10-N falling object encounters 4 N of air resistance A) 0 N. B) 4 N. C) 6 N. D) 10 N. E) none of the above	e. The net force on the object is	2)
3) A	1-kg mass at the Earth's surface weighs A) 1 N. B) 5 N. C) 10 N. D) 12 N. E) none of the above		3)
	300-kg bear grasping a vertical tree slides down a etween the tree and the bear is  A) 30 N.  C) 3000 N.	t constant velocity. The friction force  B) 300 N. D) more than 3000 N.	4)
5) Cc	ompared to the mass of an apple on Earth, the mas A) one sixth as much. C) six times as much.	s of the apple on the Moon is  B) the same. D) zero.	5)
	range as it may seem, it is just as difficult to accele is here on Earth because  A) the mass of the car is independent of gravity.  B) the weight of the car is independent of gravity.  C) both of these  D) neither of these		6)
7) Co	ompared to a 1-kg block of solid iron, a 2-kg block A) inertia. B) mass. C) volume.	of solid iron has twice as much	7)

D) all of the above
E) none of the above

8) A heavy ball hangs by a string, with a second string attached to its bottom (Figure 4.8 in your	8)
book). A quick pull on the bottom string breaks the	
A) top string.	
B) bottom string.	
C) top or bottom string equally.	
C) top of bottom string equally.	
9) If the mass of a cart is quickly loaded to have twice the mass while a propelling force remains	9)
constant, the cart's acceleration	
A) quadruples.	
B) doubles.	
C) stays the same.	
D) halves.	
E) none of these	
E) none of these	
10) A heavy block at rest is suspended by a vertical rope. When the block accelerates upward by the	10)
rope, the rope tension	
A) is less than its weight.	
B) equals its weight.	
C) is greater than its weight.	
e) is greater than its weight.	
11) A car has a mass of 1000 kg and accelerates at $2 \text{ m/s}^2$ . What net force is exerted on the car?	11)
A) 500 N	
B) 1000 N	
C) 1500 N	
D) 2000 N	
E) none of these	
D) note of these	
10\T1 (	10)
12) The force required to maintain a constant velocity for an astronaut in free space is equal to	12)
A) zero.	
B) the mass of the astronaut.	
C) the weight of the astronaut.	
D) the force required to stop the astronaut.	
E) none of the above	
13) If more horizontal force is applied to a sliding object than is needed to maintain a constant	13)
velocity, the object	
A) accelerates in the direction of the applied force.	
B) accelerates opposite the direction of the applied force.	
C) experiences greater friction.	
D) none of the above	
14) Suzie Skydiver, who weighs 500 N, reaches terminal velocity of 90 km/h. The air resistance on	14)
Suzie is then	
A) 90 N.	
B) 250 N.	
C) 410 N.	
D) 500 N.	
E) none of the above	

## Answer Key Testname: CHAPTER 4 PRACTICE

- 1) C 2) C 3) C 4) C

- 5) B
- 6) A

- 7) D 8) B 9) D 10) C 11) D 12) A

- 13) A
- 14) D