Exam		
Name		
MULTIPLE CHOICE. Choose the one alternation	tive that best completes the statement or answers the quest	ion.
<ul> <li>1) If an apple experiences a constant net</li> <li>A) velocity.</li> <li>B) speed.</li> <li>C) acceleration.</li> <li>D) position.</li> <li>E) more than one of the above</li> </ul>	t force, it will have a constant	1)
2) A 10-N falling object encounters 4 N A) 0 N. B) 4 N. C) 6 N. D) 10 N. E) none of the above	of air resistance. The net force on the object is	2)
3) A 1-kg mass at the Earth's surface we A) 1 N. B) 5 N. C) 10 N. D) 12 N. E) none of the above	eighs	3)
4) A 300-kg bear grasping a vertical tree between the tree and the bear is A) 30 N.  C) 3000 N.	e slides down at constant velocity. The friction force  B) 300 N.  D) more than 3000 N.	4)
<ul><li>5) Compared to the mass of an apple on</li><li>A) one sixth as much.</li><li>C) six times as much.</li></ul>	Earth, the mass of the apple on the Moon is  B) the same.  D) zero.	5)
<ul> <li>6) Strange as it may seem, it is just as di it is here on Earth because</li> <li>A) the mass of the car is independ</li> <li>B) the weight of the car is independ</li> <li>C) both of these</li> <li>D) neither of these</li> </ul>		6)
7) Compared to a 1-kg block of solid iro A) inertia. B) mass. C) volume.	on, a 2-kg block 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) to ground that he weight	
0	
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	
,	
12) The force required to maintain a constant velocity for an extrement in free space is equal to	12)
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	
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