**STUDY GUIDE**

**CHAPTER 4 TEST**

**Forces and the Laws of Motion**

1. **Define Force, contact force, field force, Newton’s 1st,2nd, and 3rd law, inertia, newton, action-reaction pairs, normal force, weight, force due to gravity, free-body diagram, tension, Equilibrium, Static friction, kinetic friction, coefficient of static and kinetic friction.**
2. **What is the significance of Net Force = 0.**
3. **What is the significance of constant velocity?**
4. **What is the significance of Net Force > 0?**
5. **Which is greater, kinetic or static friction?**
6. **How do you calculate: (Object on a horizontal surface, moving or stationary))**
   1. **Weight or Force due to gravity**
   2. **Normal Force**
   3. **Force due to friction (kinetic and static)**
   4. **Coefficient of static and kinetic friction**
   5. **Applied force**
   6. **Net Force**
   7. **Acceleration**
   8. **Mass**
7. **How do you calculate: (Object on an incline, moving or stationary)**
   1. **Weight or Force due to gravity**
   2. **Normal Force**
   3. **Force due to friction (kinetic and static)**
   4. **Coefficient of static and kinetic friction**
   5. **Applied force**
   6. **Net Force**
   7. **Acceleration**
   8. **Mass**
8. **Draw and label a basic free body diagram. (HW)**