Name

Date

 Quiz- Newton’s Laws of Motion

Part A- Multiple Choice

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| \_\_\_\_\_\_ 1) First Law\_\_\_\_\_\_ 2) Second Law\_\_\_\_\_\_3) Newton\_\_\_\_\_\_ 4) field force\_\_\_\_\_\_ 5) contact force\_\_\_\_\_\_ 6) inertia\_\_\_\_\_\_ 7) equilibrium\_\_\_\_\_\_ 8) force\_\_\_\_\_\_ 9) Third Law | a) For every action there is an equal and opposite reaction.b) objects that are either at rest or moving with constant velocityc) physical contact between two objects d) does not involve physical contact between two objectse) An object at rest remains at rest, and an object in motion continue in motion with constant velocity unless the object experiences a net external force.f) a push or a pull (or…an action exerted on an object which may change the object’s state of rest or motion”g) the scientist contributed to the modern understanding of force and motionh) the mass in an object affects it’s \_\_\_\_\_\_\_\_i) The acceleration of an object is directly proportional to the net force acting on the object and inversely proportional to the object’s mass. |

Part B- Identify/draw the forces (field and contact)

 10)  11) 

Part C- Calculating X and Y components

Pretend the box is held at rest on a frictionless ramp by rope. What are the x and y components of the force of gravity? (Remember that F=m x a(aka-g))

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| 12) x-component | 13) y-component |