Quiz for machinery and machine guarding

1. As a general rule, power transmission apparatus is best protected by which of the following?
   a) **Presence-sensing devices**  
   b) Warning signs placed between the worker and the work  
   c) Fixed guards that enclose the danger area  
   d) Mechanical arm restraints

2. Point of Operation is the point where work is performed on the material, EXCEPT:
   a) Cutting  
   b) Shaping  
   c) Boring  
   d) Gluing

3. Which of the following is NOT one of the four types of machine guards?
   a) Fixed  
   b) **Flexible**  
   c) Interlocked  
   d) Adjustable

4. A wide variety of mechanical motions and actions may present hazards to the worker. These can include the movement of rotating members, reciprocating arms and cutting teeth.
   a) True  
   b) False

5. This guard is usually preferable to all other types because of its relative simplicity and permanence.
   a) Fixed  
   b) Adjustable  
   c) Interlocked  
   d) Flexible

6. What happens when the light field is broken while using a photoelectric presence-sensing device?
   a) An alarm sounds  
   b) The machine works since no one is present  
   c) **The machine stops and will not cycle**  
   d) Strobe lights begin flashing
7. These devices use a series of cables attached to the operator's hands, wrists, and/or arms.
   a) Pullback devices
   b) Presence-sensing devices
   c) Two-hand trip devices
   d) Restraint devices

8. These devices require pressure that is designed to detect the presence of people on its sensing surface.
   a) Safety mat
   b) Presence-sensing devices
   c) Two-hand trip devices
   d) Restraint devices

9. These devices use cables or straps that are attached to the operator's hands at a fixed point.
   a) Safety trip controls
   b) Pullback devices
   c) Restraint devices
   d) Fixed devices

10. These devices have a probe or contact bar which descends to a predetermined distance when the operator initiates the machine cycle.
    a) Pullback devices
    b) Safety trip controls
    c) Electro-mechanical sensing device
    d) Two-hand control