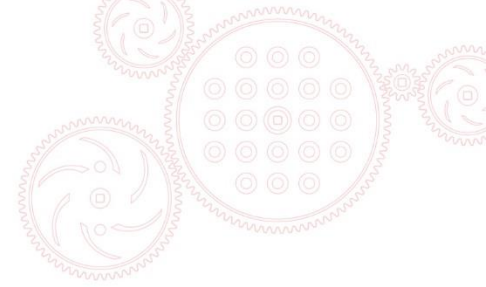




## Curriculum Pre/Post Test Unit 6

1. A \_\_\_\_\_ is a manipulator that applies a single force to the side of an object.
  - A. Scoop
  - B. Gripper
  - C. Pinching claw
  - D. Plow
2. A \_\_\_\_\_ is a manipulator that applies force underneath an object so it can be elevated or carried.
  - A. Scoop
  - B. Gripper
  - C. Pinching claw
  - D. Plow
3. Another name for a friction grabber manipulator is a \_\_\_\_\_.
  - A. Scoop
  - B. Claw
  - C. Shovel
  - D. Linkage
4. Friction grabbers apply a \_\_\_\_\_ force between the object and a traction pad.
  - A. Vertical
  - B. Normal
  - C. Friction
  - D. Gravitational
5. Pinching claws require \_\_\_\_\_ in either the object being gripped or in the claw itself to provide a solid grip.
  - A. Friction
  - B. Rigidity
  - C. Elasticity
  - D. Stiffness



6. Which type of manipulator provides quickest object pick up without requiring fine positioning of the robot?
  - A. Scoop
  - B. Pinching Claw
  - C. Top jaw grabber
  - D. Roller claw
  
7. \_\_\_\_\_ is type of robot mechanism used to pick up a large number of similar objects.
  - A. Scoop
  - B. Roller claw
  - C. Accumulator
  - D. Hopper
  
8. What are the two types of hoppers?
  - A. Conveying and Lifting
  - B. Dumping and Lifting
  - C. Reversing and Dumping
  - D. Lifting and Reversing
  
9. The objects in this type of accumulator are typically not actively manipulated once inside the storage area and are held in a fixed orientation.
  - A. Magazine
  - B. Hopper
  - C. Indexing Conveyor Belt
  - D. Non-Indexing Conveyor Belt
  
10. What type of accumulator runs continuously and allows the objects to self sort?
  - A. Magazine
  - B. Hopper
  - C. Indexing Conveyor Belt
  - D. Non-Indexing Conveyor Belt
  
11. The speed of a single belted conveyor system should be \_\_\_\_ times faster than the top speed of the robot's drive train.
  - A. 0.5
  - B. 1
  - C. 1.5
  - D. 2



12. The speed of a double belted conveyor system should be \_\_\_\_\_ times faster than the top speed of the robot's drive train.

- A. 0.5
- B. 1
- C. 1.5
- D. 2

13. In which one of these type of conveyors would a ball not roll while being collected?

- A. Single belt
- B. Double belt
- C. Indexing
- D. Non-Indexing