Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**UH Aquaponics Workforce Development Program**  
  
Assessment of AQ Applied Science Course related to AquaPono Microsystem Maintenance Standard Operating Procedures (SOPs)  
  
1) List 3 reasons to follow the principles, processes and methods of SOPs.

2) Explain how to change an SOP.  
  
  
  
  
  
  
  
  
3) Complete the following table listing our current water quality tests. Describe what the outcome readings reveals about plants, fish, bacteria status.

|  |  |  |  |
| --- | --- | --- | --- |
| Water Quality Test | Plants | Fish | Bacteria |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

4) Describe the importance of being focused in observation and surveillance during training periods.  
  
  
  
  
  
  
  
  
  
  
  
5) Plant health depends on what processes, methods, elements and compounds?  
  
  
  
  
  
  
  
  
  
  
  
6). What are the differences between an element and a compound?  
  
  
  
  
  
  
  
  
  
  
7) Name three compounds in the nitrification process.

8) What is a heterotroph? What is an autotroph?

9) Is algae an animal or plant?  
Explain the methods of controlling algae, and why algae needs to be kept to a minimum in our SOP approach.

10) What attracts beneficial bacteria to the AQ systems? What are the names of beneficial bacteria and where do the bacteria live in the system?

11) Explain the difference between aquaponics and hydroponics. Explain why aquaponics is more economically sustainable than hydroponics.

12) Please describe the process of photosynthesis using symbols, words, or pictures.

13) List the ways how your life has gotten better by participating in the aquaponics technician training.

Prioritize 1, 2, 3, 4, 5, 6, the AQ activities you are interested in.  
  
a) \_\_\_\_\_\_ Helping build and assemble the new micro systems.  
  
  
b) \_\_\_\_\_\_ AquaPono "Starts" Nursery transplant and maintenance activities  
  
  
c) \_\_\_\_\_\_\_ Daily Micro System Maintenance  
  
  
d) \_\_\_\_\_\_\_\_ Farmers Market sales and other sales and marketing action plans.  
  
  
e) \_\_\_\_\_\_\_\_\_ systems data collection, and online research project.