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Continuing Education Course #483
Self-Sustaining Ecosystems

1. True or False: There is no need to purchase, ship, or stock any of the fish species found in the saltwater marsh and pond today.
 - a. True
 - b. False

2. The Conservation Center's purpose was to provide educational and scientific opportunities for both the public and scientists in the areas of _____?
 - a. Conservation
 - b. Marine biology
 - c. Marine animal care
 - d. Green energy
 - e. All of the above

3. Which agency provided the regulatory approval for the tidal saltwater marsh and tidal saltwater pond?
 - a. County Development Department
 - b. State Water Management District
 - c. Department of Environmental Regulation
 - d. US Army of Corps of Engineers
 - e. US Department of Agriculture

4. Who provided the architectural and site development plans for the project campus?
 - a. Local architectural and engineering firms
 - b. FLAQ
 - c. FWC
 - d. TECO

5. How many master plans were prepared as the project evolved?
 - a. 11
 - b. 23
 - c. 31
 - d. 48

6. When did the Tampa Bay high tide occur as compared to the high tide in the creek?
 - a. Earlier
 - b. Same
 - c. Later

7. What was used to construct the water control structure between the creek and the marsh?
 - a. HDPE pipe
 - b. Corrugated metal pipe

- c. Reinforced Concrete pipe
- d. None of the above
8. The test marsh was _____ in size when the Final Saltwater Marsh was designed and constructed.
- a. Enlarged
- b. Kept the same
- c. Reduced
9. What marsh grasses were primarily planted in the newly graded areas of the Final Marsh.
- a. *Spartina alterniflora*
- b. Saltmeadow cordgrass
- c. Seashore paspalum
- d. Sand cordgrass
10. True or False: In nature, saltwater habitats depend on moving water.
- a. True
- b. False
11. What was used to generate water movement in the saltwater pond?
- a. A concrete culvert
- b. Bi-directional PVC pipes
- c. A concrete spillway
- d. Air lifts
- e. All of the above
12. A concrete culvert through the marsh berm into the pond would solve what critical needs?
- a. Generate water movement within the pond
- b. A source of nutrients needed to sustain the sea grasses and marine life
- c. Provide for the natural recruitment of different species of fish and crustaceans
- d. All of the above
13. For the concrete culvert connecting the marsh to the pond, what was the invert of the culvert at the pond?
- a. -4.0 ft
- b. 0.0 ft
- c. +2.5 ft
- d. None of the above
14. The four bi-directional PVC piping allows for _____? Which of the following responses is NOT correct.
- a. The discharge of pond water during a low tide cycle
- b. The inflow of fresh seawater directly into the pond during a high tide cycle
- c. Ease of stocking the pond with fish
15. What component was constructed for water circulation that has never been used to date?
- a. The bi-directional piping
- b. The airlifts
- c. The spillway
- d. The concrete culvert between the marsh and the pond
16. Which benefit does the spillway NOT provide?

- a. A relief point for higher-than-normal tides
 - b. Preventing tropical storms
 - c. To protect the pond berm from suffering some storm erosion issues
17. True or False: A pond layout should provide a shoreline with natural turns to force larger fish to make turns both to the right and to the left.
- a. True
 - b. False
18. How should the area of a sustainable pond NOT be determined?
- a. The marine species using the pond
 - b. The intended uses
 - c. The water sources
 - d. The area needed for the client's other desired uses
19. True or False: A tidal pond constructed in an area with large tide changes could be modified to have smaller tide changes simply by restricting the flows through a water control structure.
- a. True
 - b. False
20. True or False: The Pond's side slopes are a critical element of the overall size, volume, and function of a tidal pond.
- a. True
 - b. False
21. At the FWC Youth Conservation Center, youth and youth leaders are ONLY taught _____? Select only one answer.
- a. Conservation and fishing
 - b. Kayaking and hiking
 - c. Safety
 - d. All of the above
22. True or False: The FLAQ Coral Nursery and Research facilities research coral growth but they are also growing different types of coral.
- a. True
 - b. False
23. How is the removal of invasive fish species managed at the Suncoast Conservation Center?
- a. Use of predator fish
 - b. Use of fish nets
 - c. By "Catch and Release" fishing events
 - d. None of the above
24. True or False: In the master plan, future possibilities and expansions should be included even if they may not happen.
- a. True
 - b. False
25. True or False: The inclusion of educational opportunities is not required to develop ecosystems.
- a. True
 - b. False

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