

Part A- 27 points

1. A B C D E
2. A B C D E
3. A B C D E
4. A B C D E
5. A B C D E
6. A B C D E
7. A B C D E
8. thermocline
9. halocine
10. increases
11. pycnocline
12. density
13. absence of thermocline
14. A B C D E
15. A B C D E
16. A B C D E
17. A B C D E
18. A B C D E
19. A B C D E
20. A B C D E
21. A B C D E
22. A B C D E
23. A B C D E
24. A B C D E
25. sulfate  $\text{SO}_4^{2-}$
26. polyhaline
27. oligohaline

Part B- 27 points

1. A B C **D**
2. A **B** C D
3. **A** B C D
4. A B C **D**
5. **A** B C D
6. A **B** C D
7. A B **C** D
8. **A** B C D E F
9. A B C **D**
10. A B C **D** E F
11. A **B** C D E F
12. A B **C** D E F
13. **A** B C D
14. B **C** D E
15. B C D **E**
16. A **B** C D
17. C D E **F**
18. **A** B C D
19. Four
20. Eight
21. 18
22. 75-160
23. Atoll, fringing reef, barrier
24. Deep-water trawling
25. Cyanide
26. Black-band disease
27. Reduce the adverse impacts of human activities

1. A B C **D**
2. B F I **T**
3. **A** B C D
4. **A** B C
5. 1 2 3 4
6. \_\_\_\_\_
7.  $(7.82-4.17)/(5/300) = 219$
8.  $(7.65-4.24)/(10/300) = 103$
9. Inverse (one up other down) must refer to data on figure
10. 9-30
11. Upwelling
12. conductivity
13. **A** B C D
14. A B **C** D
15. **A** B C D
16. A **B** C D
17. A B **C** D
18. A B C **D**
19. A B C **D**
20.  $100/0.500 = 200 \text{ mg/L}$
21. light 2 to 3 times secchi depth so 8-12 feet
22. total solids
23. zero
24. The last question requires you to demonstrate the use of your homemade salinometer. (4 points possible)
  - a. Show your salinometer to the event supervisor or designated volunteer and have them initial your answer sheet. (1 point)  
\_\_\_\_\_
  - b. You may wish to calibrate your salinometer prior to testing the unknown solution.
  - c. Record the concentration of solution A. (3 points) \_\_\_\_\_

TIE BREAKER QUESTIONS (You may also write on the back of this page.)

1. Cooperative hunting
2.  $\text{CaCO}_3$
3. bay, harbor, lagoon, inlet, sound