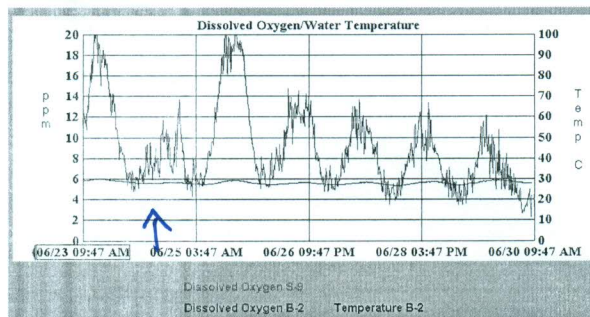


Exam 2
Aquaculture Production
January 7, 2011

Name: _____

All answers are worth 3 points unless otherwise indicated.

- Which of the following feeds will give the maximum growth for fish grown in cages?
a) **floating complete** b) sinking complete c) supplemental d) natural e) powdered
- True or **False**: When feeding a fish that requires a 32% protein feed, any 32% protein feed will provide maximum growth.
- Which of the following conditions will lead to a higher rate of metabolism (higher oxygen consumption)?
a) Cool water temperatures
b) Larger fish
c) **Higher fish activity**
d) No feed
e) Oxygen saturation
- A farmer sells his/her fish for \$1.50/kg. The cost of the feed is \$0.55/kg. Based upon the rough estimate used to determine cost-effectiveness, will the farmer make any profit?
- Which of the following can provide supersaturated levels of dissolved oxygen?
a) paddlewheel b) diffused air c) aspirator d) vertical pump sprayer e) **none of these**
- In large ponds, which of the following is best for adding oxygen and circulating water?
a) **paddlewheel** b) diffused air c) aspirator d) vertical pump sprayer e) vertical aerator
- In the following graph, what is NOT a likely cause of the low level of dissolved oxygen on the **second** day?



- rain
- heavy overcast (clouds)
- aeration
- phytoplankton die-off**
- storm

8. Which of the following species would have the maximum feeding rate in ponds with no aeration?
- a) Channel catfish
 - b) Rainbow trout
 - c) tilapia
 - d) **tra catfish**
 - e) largemouth bass
9. Which of the following species had the highest market price?
- a) Snakehead
 - b) Freshwater Eel
 - c) Tilapia
 - d) Tra catfish
 - e) **Freshwater prawn**
10. What is the maximum amount of tra catfish processed daily by the Thuan Hung Company?
- a) 10 mt/day
 - b) 40 mt/day
 - c) **100 mt/day**
 - d) 200 mt/day
 - e) 300 mt/day
11. What is the main product produced by the Thuan Hung Company? **Frozen fillets**
12. How are tra catfish fingerlings transported from the hatchery to the farm and then to ponds? **By boat to the farm and then by motorbike in baskets with no water**
13. What is the average production (MT/pond) for the tra catfish farm? **65-70 MT/pond**
14. Which of the following fertilizers are used on the tra ponds at the Thuan Hung Company?
- a) TSP
 - b) urea
 - c) 10-20-0
 - d) 10-10-10
 - e) **None of the above**
15. For the tra catfish farm, how is the type of feed adjusted as the fish grows? **They increase the feed size while decreasing the % protein in the feed.**
16. (5 pts) Briefly explain how the Thuan Hung Company got water from the main river into the tra catfish ponds and then how the water was processed before discharging (after harvest). **Water came from river by canal on both ends of the farm and was pumped into the fill canal to gravity feed into ponds. Water was drained by pipe in lower**

