

**Agricultural and Food Engineering Dept.
IIT, Kharagpur**

Date of examination: 21 April, 2012, 2.00 pm
End-Spring semester exam.: 2012
Subj. name: Advanced Aquaculture Technology
Course: M.Tech. in Aquacultural Engg.

Full marks: 100
Time : 3 hours
Subject no:AG60108
No. of students: 7

Instructions: Answer all questions

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- Q1. What are the merits and demerits of cage culture of fish? (5+5=10)
- Q2. Discuss the Open and Closed system of transportation of fish. (5+5=10)
- Q3. What are the important biological and non-biological criteria for increasing production in aquaculture ponds? (5+5=10)
- Q4. Discuss 'Integrated aquaculture' in China with the help of a flow diagram. How this system of aquaculture be adopted in India? (5+3=8)
- Q5. What are the actions and methods of liming of aquaculture ponds? What are the factors which determine the time and dose of liming? (5+3+3+4=15)
- Q6. What are the important actions of organic manure in aquaculture ponds? (5)
- Q7. What are the main differences in the reproductive behaviour and breeding characteristics of penaeid and non-penaeid prawns? (6+6=12)
- Q8. Write short notes on: (5 x 6=30)
- i) Use of anaesthetic drugs in aquaculture.
 - ii) Environment controlled warm-water aquaculture.
 - iii) Removal of sticky layer of common carp eggs.
 - iv) Eradication of aquatic insects.
 - v) Pen culture of fish.
 - vi) WHO recommended different categories of waste water.