

UNIVERSITY OF RUHUNA
BACHELOR OF SCIENCE IN FISHERIES AND MARINE SCIENCES DEGREE

Level III Semester II Examination

Dec. 2015/Jan. 2016

AQU 3222 Methods for Aquaculture I

Time: 02 hours

Answer any **Four (04)** questions

- 01) (a) What is carp polyculture? (06 marks)
(b) List out the species that can be used in carp polyculture. (10 marks)
(c) Explain the important characteristics of carps which make them suitable for a polyculture. (34 marks)
- 02) (a) List out the sources of lime used in aquaculture ponds. (05 marks)
(b) Briefly explain the advantages and disadvantages of liming in a fish pond. (45 marks)
- 03) (a) What is pond fertilization? (05 marks)
(b) Briefly describe the fate of fertilizers when they were introduced to the pond water. (20 marks)
(c) Discuss the advantages of using organic fertilizers in a fish pond. (25 marks)
- 04) Write short notes on **any two** of the following (25 marks each)
a) Factors which should be considered when using the inorganic fertilizers in fish pond
b) Different trophic levels of a fish pond
c) Tilapia hybrids

- 05) a) Briefly explain the attributes of tilapia which makes it as an excellent candidate for aquaculture. (20 marks)
- b) Explain why monosex culture is preferred over mixed sex culture in tilapia aquaculture. (10 marks)
- c) Briefly describe the techniques used for production of all male tilapia fingerlings. (20 marks)
- 06) Write short accounts on the following.
- a) Industry definition of “ornamental fish and live rock”? (08 marks)
- b) Important ecological considerations in ornamental aquarium trade. (42 marks)

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