



Uva Wellassa University of Sri Lanka
Faculty of Animal Science & Export Agriculture
BSc Degree Programme
Year II Semesters II

End Semester Examination - August 2011
AQT 233-2 Water Quality Management
Essay Questions (Section II)

Instructions

Answer **all** questions in Section II in given Booklet.

No. of questions : Two (02)

No. of pages : Two (02)

Time : One hour (1hr)

Total marks allocated : 60%

Index No:

01. An aquaculturist assessed the following water quality parameters from three freshwater bodies selected in Uva Province.

Water Quality Parameter	Site A	Site B	Site C
DO (mg/L)	5.0	3.2	10.0
BOD (mg/L)	5.3	12.2	1.15
COD (mg/L)	2.6	5.9	0.5
pH	5.5	4.5	7.0
May flies / m ²	09	03	38
Stone flies /m ²	11	04	50
Caddis flies /m ²	10	03	52
Total no. of organisms	75	60	250
Faecal Coliform count /100ml	10	135	0

I).a). What is the best water body that is suitable for aquaculture practices?

(02 marks)

b). Justify your answer giving reasons supporting suitability of the water body you indicated and why the other two are not / less suitable.

(13 marks)

II). Briefly describe the natural **Hydrological** and **Biological** processes that have the direct impact on the concentration of chemical elements and compounds in freshwater bodies.

(15 marks)

02. Write short notes on the following.

a) Importance of managing water quality parameters in an aquaculture system.

b) Effects of presence of macrophytes and algae, in an aquaculture system.

(15 × 2 = 30 marks)

[End of Section II]