

THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. DEGREE PROGRAMME – LEVEL 5
FINAL EXAMINATION – 2006/2007
COURSE TITLE – AQUATIC BIOLOGY
COURSE CODE – ZOU3161 / ZOE5161 / ZOI5161
DURATION – TWO AND A HALF HOURS



090

DATE – 26. 04.2007

TIME - 1. 30 pm –4. 00 pm

ANSWER ANY FOUR (4) QUESTIONS.
WHEREVER NECESSARY ILLUSTRATE ANSWERS WITH CLEARLY
LABELED DIAGRAMS.

1. a. Describe the specific properties of water and explain how those properties affect living organisms.
b. Discuss the vertical distribution of oxygen in a tropical lake.
2. a. Describe the term “primary productivity” in an aquatic ecosystem.
b. What are the factors that affect the primary productivity in a freshwater lake? Explain how those factors affect primary productivity.
3. a. Briefly describe all the major habitats found in the coastal zone of Sri Lanka.
b. Explain the morphological, physiological and behavioral adaptations shown by estuarine organisms to overcome the difficult conditions in the brackish water environment.
4. a. Describe the nature (topography) of the bottom of the ocean.
b. Explain the different tidal patterns found in the ocean.
5. a. Describe the major sources of marine pollution and the effects of pollution on marine organisms.
b. Explain the contribution of alga in the formation of coral reefs.
6. Write short notes on two (2) of the following:
 - a. Mangroves
 - b. Zonation of rocky shores
 - c. Estuaries as nutrient traps
 - d. Eutrophication

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