



THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. DEGREE PROGRAMME – LEVEL 5
FINAL EXAMINATION – 2012/2013
COURSE TITLE – AQUATIC BIOLOGY
COURSE CODE – ZLU3180/ZOU3161/ZOE5161
DURATION – TWO HOURS

DATE – 29. 11. 2013

TIME – 9.30 am to 11.30 am

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

1. Discuss how the molecular structure and the specific properties of water support the existence of life on Earth.
2. a. Explain how the primary productivity of **Parakkrama Samudraya** is determined.
b. State the factors that affect primary productivity.
3. a. Briefly explain the physical and chemical factors of lagoon and estuarine environments.
b. Describe the osmotic adaptations of organisms that migrate from the marine environment to the freshwater environment.
4. Discuss why rocky shore organisms show more morphological and structural modifications than those living in particulate shores.
6. Write short notes on any two (2) of the following:
 - a. Symbiotic associations in corals
 - b. Ocean tides
 - c. Deep sea animals
 - d. Mangrove community

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