

B.Sc. DEGREE PROGRAMME – LEVEL 5
 FINAL EXAMINATION – 2015/2016
 THE OPEN UNIVERSITY OF SRI LANKA
 B.Sc. DEGREE PROGRAMME – LEVEL 5
 FINAL EXAMINATION – 2015/2016
 COURSE TITLE – AQUATIC BIOLOGY
 COURSE CODE – ZLU3180 /ZOU3161/ ZOE5161
 DURATION – TWO HOURS



DATE – 06.01.2017

TIME - 9.30 am – 11.30 am

ANSWER ANY FOUR (4) QUESTIONS.
 WHEREEVER NECESSARY ILLUSTRATE ANSWERS WITH CLEARLY LABELLED
 DIAGRAMS.

1. a. Explain the factors that determine the amount of dissolved oxygen (DO) in aquatic habitats.
- b. Describe the vertical and diurnal distribution patterns of DO in different lentic freshwater habitats.
2. Explain the different respiratory adaptations found in aquatic insects.
3. a. Describe how physical, chemical and biological factors are involved in the process of sedimentation in estuaries.
- b. Explain the importance of sedimentation for ecosystem functions in estuaries.
4. Explain the morphological, physiological and behavioral adaptations shown by organisms to live in the pelagic zone of the sea.
5. a. (i) Describe the different types of coral reefs found in the world.
- (ii) Compare the two major types of corals found in coral reefs.
- b. Explain the algal contribution in the formation of coral reefs.
6. Write short notes on any two (2) of the following:
 - a. Mangroves
 - b. Deep ocean basin
 - c. Ocean tides
 - d. Primary productivity in aquatic habitats

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