



EMBU UNIVERSITY COLLEGE
(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)
TRIMESTER EXAMINATIONS 2013/2014
SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
IN BIOLOGY
SZL 203B: FUNDAMENTALS OF AQUATIC ECOLOGY

DATE: AUGUST 15, 2014

TIME: 11.00AM – 1.00PM

INSTRUCTIONS:

Answer ANY TEN Questions (7 Marks each)

1. Distinguish between Aquatic and Terrestrial ecosystems
2. Using examples, describe two aquatic transitional communities
3. Explain the differences between Oligotrophic and Eutrophic lakes
4. Describe the two horizontal provinces of the Pelagic environment and outline their characteristic features
5. Briefly discuss any two functional groupings into which marine organisms can be classified based on common functions
6. Describe the two groups of aquatic plants that represent the truly marine benthic plants
7. Outline the characteristics of Lentic and Lotic habitats in running water ecosystems
8. Discuss any two groups of animals that can be found in the inland water ecosystems
9. Describe the two basic sources of food for aquatic organisms
10. List seven (7) ecological effects of eutrophication in aquatic ecosystems
11. Outline seven (7) ways that aquatic organisms may use to reduce their body density and thus increase buoyancy and floatation
12. Outline any seven (7) principles that are important in the restoration of degraded aquatic ecosystems

---END---