

BOWEN UNIVERSITY, IWO
DEPARTMENT OF BIOLOGICAL SCIENCES

2010/2011 SECOND SEMESTER EXAMINATION

ZLY 408: LIMNOLOGY

Answer any **three** questions.

Time: 2hr 15 mins.

1. Write an essay on the origin of lakes. *(25 Marks)*

2. Discuss the following:
 - (a) Differences between inland waters and ocean/sea.
 - (b) Differences between lotic and lentic series.
 - (c) Factors leading to the death of lakes. *(25 Marks)*

3. (a) Discuss briefly the sources and sinks of the following environmental variables.
 - (i) Heat
 - (ii) Dissolved oxygen
 - (iii) Carbon dioxide
(b) Give an account of 'Thermal Stratification' as it relates to lakes *(25 Marks)*

4. Discuss the role of nutrients in lake productivity. *(25 Marks)*

5. Give an account of the major groups of freshwater phytoplanktonic algae. *(25 Marks)*