

FEDERAL UNIVERSITY OF TECHNOLOGY OWERRI
SCHOOL OF BIOLOGICAL SCIENCES
DEPARTMENT OF BIOLOGY
HARMATTAN SEMESTER 2018/2019 EXAMINATION
BIO 407: BASIC LIMNOLOGY (3 UNITS)

TIME ALLOWED: 3HRS

DATE: 19-06-19

Instruction: answer any four (4) questions.

1. (a) Why is water called a universal solvent? (4 marks)
(b) Using well labelled diagrams, discuss the biogeochemical cycle of carbon (8 marks)
2. (a) How are lakes formed? (3 marks)
(b) With a well labelled diagram, explain the phenomenon of water cycle (9 marks)
3. Thermal input and removal affects the three states of water. Explain this. (12 marks)
4. (a) What is capillary action of water? (2 marks)
(b) Write extensively on density of salt water and ice (10 marks)
5. Write a short note on the following characteristics of water: (a) Colour and appearance
(b) Taste and odour (c) Miscibility (4 marks each)
6. (a) Write briefly on three (3) classes of lakes. (9 marks)
(b) What is Stratification? (3 marks)
7. (a) Enumerate the importance of lakes (8 marks)
(b) In a tabular form, differentiate between open and closed lakes. (4 marks)

GOOD LUCK !!!