

## Fishery Science and Limnology Final Examination

**INSTRUCTION TO STUDENTS: ATTEMPT ALL THE QUESTIONS (100%)**

**TIME FOR THE EXAM: THREE HOURS**

**OBSERVE SILENCE IN EXAM ROOM**

1. What do you understand by the following terms? (20 Points)
  - i. Hydrology
  - ii. Limnology
  - iii. Turbidity
  - iv. Statistical unit
  - v. Sampling (e.g. fish population sampling etc.)
  
2. State TWO types of water giving examples for each type. (10 Points)
  
3. Discuss the process of attenuation in relation to the measurement of water transparency. Formulate the extinction coefficient (rates at which light decreases with depth) (20 Points)
  
4. Define the term oxygen and state and explain THREE sources of oxygen stating some of its uses. (20 Points)
  
5. State and explain FIVE factors affecting dissolved oxygen concentration in water. (10 Points)
  
6. Define the term salinity and state and explain FIVE factors affecting salinity (20 Points)