

RELEVANCE OF HYDROBIOLOGY AND LIMNOLOGY

The subject has its application in Fisheries, Public health, Water pollution. Hydrobiology which is confined to study of Geology, Chemistry, Physics and Climatic aspect of water, resources, aims at finding, mobilizing and regulating water quality for domestic, irrigation and hydro electric purpose. The course is of economic important in tropical Africa;

1. Most of the large lakes are the most convenient means of communication across great expanses of difficult countries. Even now with railways, motor and air routes, ship still provide transportation on long stretches of Lake Victoria, Tanganyika, Malawi, River Nile, Zaire and Niger.
2. Extraction of minerals - most marine beaches is depository of useful heavy minerals like Garnet, Rutile, Gold, Titanium, and Platinum and common salt, calcareous shell deposit and Manganese.
3. Fish and Agriculture using this water for irrigation enable the world to provide food, though aquatic habitat provides about 35% of the world's plant production, it contributes nearly 80% of the world animal production both for domestic and commercial use using advance methods.
4. Also serves as power source for hydro electric power generation to operate hydro electric generating plant, also to turn turbines and other thermos.

5. Provide employment directly or indirectly for researcher and teachers who teach basic biology subjects such as evolution of fauna and flora in term of zoogeography, ecology, nutritional cycle, genetics, and primary production and adaptation to physiology and bio chemical changes.
6. Man is able to study the cause and cure of certain disease of man and animals caused by aquatic organism (water borne bacteria infections) i.e. relevance of limnology to tropical health is verified.
7. Man study the aquatic habitat for easy manipulation in term of drinking water, fish continuing having studied the physiochemical and zoogeography of aquatic.
8. life start in water, hence study aquatic habitats or organism to truce its origin, to know about the living surface and factors that make its very existence a reality and to know he populations of others animals and compare their relative abundance in term of number, size weight and length in relation to age and growth and interdependence for food
9. Economically, water serves as a source of attraction to tourist locally and internationally generating revenue. Also provide Man one of the high ranked protein - fishing also supply a poly unsaturated fatty acids, easily digested. The game of fish is another interesting aspect as different people from different parts of the world display different sized fish to different quality.
10. For scientific purpose in developing a mathematical models as relationship or parameters are expressed in mathematical formula using computers e.g.

relationship between temperature and oxygen. Technologically, study angles had enable man to modify its mode of living making boats, ship, and borer and to contain his body to even swim like fish.