

# **SECOND YEAR T. D.C.SCIENCE, 2018-19**

## **ENVIRONMENTAL SCIENCES**

### **PAPER - II**

#### **AQUATIC ECOLOGY**

Duration: 3 Hrs.

M.M.:50

#### **UNIT-I**

Physico-chemical characteristics of aquatic habitats (light, temperature, pH, nitrate and phosphate); lentic and lotic habitats; Lakes and Ponds; ecological zonation in the lake environment.

#### **UNIT-II**

Definition and general account of lakes; origin of lakes, classification of lakes; Productivity of lakes; Lake fertility and fish production; Eutrophication.

#### **UNIT-III**

Biotic communities of lakes: Plankton, Benthos, Nekton and Neuston, Diversity and Biomass of plankton and benthos in time and space, aquaculture.

#### **UNIT-IV**

Features of marine environment, zonation of marine environment, biotic communities of marine environment; Brief account of pelagic, coastal, deep sea, coral reefs and mangrove communities; Marine resources.

#### **UNIT-V**

Estuarine ecology, Definition and types, biota and productivity, Ecological adaptation in estuarine environment. Eco- characteristics of Chilka lake.