## 2/EH-36 (ii) (Syllabus-2015)

## 2017

(April)

## FISHERY SCIENCE

( Elective/Honours )

Paper: 2A

( Aquatic Ecology )

Marks: 56

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer Question No. 1 which is compulsory and any four from the rest

- 1. Answer/Write short notes on any *three* of the following: 4×3=12
  - (a) Differentiate between lotic and lentic environments.
  - (b) Describe biotic communities of lentic ecosystem.
  - (c) Bioindicator species and its importance
  - (d) Nitrogen cycle
  - (e) Significance of tides

- 2. What do you understand by primary productivity? Describe the method employed to estimate the primary production of an aquatic ecosystem.
  3+8=11
- 3. (a) State the limnological significance of dissolved oxygen and carbon dioxide in aquatic ecosystems.
  (b) Discuss the importance of thermal
- stratification and overturn.

  4. Describe the global distribution of water and importance of hydrological cycle.

  6+5=1

5

6

- 5. What are pollutants? Give an account of aquatic pollution with special reference to industrial pollution.

  6+5=11

  2+9=11
- 6. Explain the physico-chemical and biological differences between oligotrophic and eutrophic water bodies.
  5½+5½=11
- Describe the carbon cycle and its importance in the ecology of an aquatic system.
- Discuss the benthic communities found in a lotic system and their adaptations.
   5+6=11

\*\*\*