

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

2022

(May/June)

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) Eutrophication and its impact on water
bodies**

**(b) Differentiate between lotic and lentic
water systems.**

- (c) Importance of tide in fisheries
- (d) What is turbidity? What are the turbidity producing substances in water?
- (e) Upwelling and its impact on fisheries
2. Define ocean current. Discuss the factors controlling the ocean current. 2+9=11
3. Describe the impact of water pollution on fisheries. 11
4. What is ecological succession? Explain the biological differences between oligotrophic and eutrophic water bodies. 4+7=11
5. Define biogeochemical cycles. Describe the nitrogen cycle and its importance in fish pond. 2+9=11
6. Briefly discuss the primary productivity of water bodies. Explain trophic levels of fish in the food chain. 4+7=11
7. Describe the adaptations of benthic communities in lotic systems. 11
8. What is thermal stratification? Explain the relationship between dissolved oxygen and water temperature in a pond ecosystem. 4+7=11
