

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

**2018**

**( April )**

**FISHERY SCIENCE**  
**( Elective/Honours )**

**Paper : IIA**

**( 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. Write in brief on any three of the following :**

**4×3=12**

- (a) Hydrological cycle**
- (b) Thermal stratification**
- (c) Sulphur cycle**
- (d) Biological differences between  
oligotrophic and eutrophic water bodies**
- (e) Bioindicator species**

2. Compare and contrast between plankton diversity of freshwater and marine water bodies. 11
3. Discuss the energy flow and trophic relationship observed among lentic biotopes.  $5\frac{1}{2}+5\frac{1}{2}=11$
4. What is biological productivity? Summarise the differences between primary productivity and secondary productivity. Add a note on the method of estimation of secondary productivity.  $1+7+3=11$
5. Discuss various causative factors and consequences of eutrophication. Briefly discuss various strategies employed in the control of algal bloom in a lentic ecosystem.  $7+4=11$
6. Give an account of the ecological succession in lotic ecosystem. 11
7. State the importance of water pollution on aquatic communities. Add a note on its control measures.  $6+5=11$
8. Discuss various adaptations of benthic communities in lotic ecosystem. 11