

**Govt. College for Women Parade Ground Jammu**  
**Department of Zoology**

**Major Test**

**Course Title: Aquatic Biology**

**Time allotted: 3 Hrs**

**Course Code: UZOTC**

**Max. Marks: 80**

**Instructions**

This paper consists of Section A, B & C. Section A comprises of Five (5) Short answer type questions (70-80 words) of 3 marks each from the entire syllabus all of which are compulsory. Section B comprises of Five (5) medium length questions (250-300 words) of 7 marks each from the entire syllabus all of which are compulsory. Section C comprises of Five (5) Long answer type questions (500-600 words) of 15 marks each out of which you have to attempt any two questions. Write your answers to the point and draw well labelled diagram where ever necessary.

**Section-A**

**(3x5=15 marks)**

- Q1. Explain briefly about the zonation of lakes.
- Q2. Explain briefly about the physical and chemical properties of water.
- Q3. What is a food web?
- Q4. Write a short note on marine fauna.
- Q5. Does agriculture waste contribute in aquatic pollution? How? (1+2)

**Section-B**

**(7x5=35 marks)**

- Q6. Explain in detail about the Phosphorous cycle with reference to lakes. Write its significance. (5+2)
- Q7. Describe in detail about the hydrological cycle in the marine ecosystem.
- Q8. Explain in detail any one food chain in lake ecosystem.
- Q9. What are sea weeds? Discuss about how they are harmful as well as essential with examples. (3+4)
- Q10. Explain in detail about the process of sewage treatment.

**Section-C**

**(15x2=30 marks)**

- Q11. Explain in detail about the chemical characteristics of both lentic and lotic water bodies.
- Q12. Discuss in detail about the physio-chemical characteristics of marine ecosystem salinity.
- Q13. Discuss in detail about the energy flow through an ecosystem.
- Q14. What are Oil spills? Explain in detail about its impact on marine life. (5+10)
- Q15. Explain in detail about the management and conservation of aquatic resources. Name any national and international body which governs them. (12+3)