



S-2648

**M. Sc. (Sem. I) Examination**  
**March / April – 2011**  
**Aquatic Biology**  
(AQB - 103 : Aquatic Microbiology)

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दृशावेव निशानीवाणी विगतो उत्तरवाडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="M. Sc. (Sem. 1)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Aquatic Biology"/>	<input type="text"/>
Subject Code No. : <input type="text" value="2"/> <input type="text" value="6"/> <input type="text" value="4"/> <input type="text" value="8"/>	Section No. (1, 2,.....) : <input type="text" value="Nil"/>
Student's Signature	

(2) All questions are compulsory.

1 Give a detailed account on the micro-organisms found associated with fresh and Marine water. 18

OR

1 Write Detection, isolation cultivation and characterization of micro-organisms. 18

2 (a) Define term pathogen. Their prevention and control. 8  
(b) Discuss the microbes predominating the different zones of lakes. 8

3 Discuss about Nutrition and growth of micro-organisms and Physico-chemical parameters affecting microbial growth. 18

4 (a) Write on Decomposition of organic matter in aquatic ecosystem. 9  
(b) Phosphorus and sulphur cycles and their significance. 9

OR

4 Elaborate the general structure and characters of fungi and viruses. 18