



S-2647

M. Sc. (Sem. I) (Aquatic Biology) Examination
March / April – 2011

AQB - 102 : Instrumentation &
Research Methodology

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="checkbox"/> M. Sc. (Sem. 1) (Aquatic Biology)	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="checkbox"/> AQB - 102 : Instrumentation & Research Methodology	<input type="text"/>
Subject Code No. : <input type="text"/> 2 <input type="text"/> 6 <input type="text"/> 4 <input type="text"/> 7	<input type="text"/>
Section No. (1, 2,.....): <input type="text"/> Nil	<input type="text"/>
	Student's Signature

(2) Attempt any five questions.

- 1 What is spectrophotometry ? Describe with labelled diagram the working of single beam and double beam spectrophotometers. 14
- 2 What is the principle and application of SEM ? Draw labelled diagram and give its brief deceptions. 14
- 3 Draw a labelled diagram and describe the principle and application of electrophoresis. Explain the methodology of protein electrophoresis. 14
- 4 What is density gradient centrifugation ? describe in detail of different types of centrifuges. 14
- 5 Give an account on principles and applications of following: 14
 - (a) Conductivity meter
 - (b) Colorimeter
 - (c) Turbidometer
 - (d) Do meter.
- 6 What is the NMR and Mass specrometry ? describe its principle and application. 14

- 7 Detail description with labelled diagram and working method of following: 14
- (i) Stereoscopic microscope
 - (ii) Interference microscope.
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