



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY

Question Paper

B.Sc. Honours Examinations 2021

(Under CBCS Pattern)

Semester - VI

Subject: AQUACULTURE MANAGEMENT

Paper : C 14-T & P

**Population Dynamics and Stock Assessment and
Therapeutics In Aquaculture**

Full Marks : 60 (Theory - 40 + Practical - 20)

Time : 3 Hours

*Candidates are required to give their answers in their own
words as far as practicable.*

The figures in the margin indicate full marks.

[Theory]

1. Answer *any two* of the following: 2×15=30
- a) Describe importance of therapeutics used in aquaculture. Add a note on their types. 10+5
- b) Write a note on age structure in a population. Explain characteristics of unit & mixed stock of population. 8+7
- c) State the properties of different antibiotics. Describe the concept of yield in number & yield in weight. 5+10

d) Briefly discuss fish vaccination.

2. Answer **any one** of the following: 1×10=10

a) Discuss analytical models of fish stocks. 10

b) Describe estimation of total fishing & natural mortality. 10

[Practical]

3. Answer **any one** of the following: 1×20=20

a) Discuss Pauly's integrated methods. Describe Beverton & Holt model. 10+10

b) Describe the study of length-weight relationship of fish and its significance. 15+5

c). Write note on - 2×10=20

i. Graphical model.

ii. Regulations of Drug use.
