



**Mid Semester Test -I
Spring 2023-24 (April 2024)**

**Name of Program-PhD
Course - Aquaculture
Course Code- AQ22P104**

Max. Duration: 1.5 hrs

Max. Marks: 30

SECTION - A

1. Objective Type Questions (ALL QUESTIONS ARE COMPULSORY) (5X1 = 05)

a) Eriochrome Black T is used in which type of water test?

- i. DO ii. pH iii. Total Hardness iv. Alkalinity

b) Productivity of photographs means -

- i. Primary Productivity ii. Secondary Productivity iii. Both iv. None

c) Biomass fuels derived from -

- i. N₂ based materials ii. Carbon based materials iii. Magnesium based materials iv. Phosphorus based materials.

d) In an radiography which type of rays are used -

- i. Alpha rays ii. Beta rays iii. Gama rays iv. X-rays.

e) Chlorella is a -

- i. Zooplankton ii. Phytoplankton iii. Benthos iv. None

SECTION - B

2. Short Answer Type Questions (Attempt any THREE) (3X5 =15)

- a) Write down the process of Alkalinity test in a given sample.
b) Define and classify Benthos? What is the role of Benthos?
c) Write a short note on Secondary productivity.
d) Write down the advantages, and uses of compound microscope.
e) Classify and discuss about autoradiography.

SECTION - C

3. Long Answer Type Questions (Attempt any ONE) (1X10 =10)

- a) Discuss about qualitative and quantitative analysis of plankton.
b) Structure, Principles and application of fluorescent microscope.