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Total Pages : 3

Roll No.

MZO-612B

**Applied Freshwater Aquaculture
(Fish Breeding & Production Technology)**

M.Sc. Zoology(MSCZO)

4th Semester Examination, 2023 (June)

Time : 2 Hours]

[Max. Marks : 35

Note : This paper is of Thirty Five (35) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

SECTION–A

(Long Answer Type Questions)

Note : Section 'A' contains Five (05) long answer type questions of Nine and Half (9½) marks each. Learners are required to answer any Two (02) questions only.

(2×9½=19)

- 1.** What is Electrophoresis? Elaborate the process involved in PAGE (Poly acrylamide gel electrophoresis).

2. Describe various viral diseases in fishes, their pathology and treatment.
3. Discuss the fish infection and treatment of diseases caused by Crustaceans.
4. Explain monogenetic and digenetic flukes causing fish diseases along with pathogenicity and treatment of gill fluke (*Dactylogyrus vastator*).
5. Elaborate life cycle, pathogenicity and treatment of digenetic trematode, *Diplostomum*.

SECTION-B

(Short Answer Type Questions)

Note : Section 'B' contains Eight (08) short answer type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only. (4×4=16)

1. Differentiate between nucleoside and nucleotide. Also explain DNA bases.
2. What is Ichthyophthiriusiasis? Explain its pathology, symptoms and treatment.
3. What is Whirling disease found in fishes?

4. Explain Branchiomycosis and its treatment in fishes.
 5. What is Furunculosis in fishes? Explain its pathogenicity and treatment.
 6. Explain Saprolegniosis and its treatment in fishes.
 7. What is infectious dropsy found in fishes? Discuss its infection and treatment.
 8. Explain the treatment and infection caused by Diplozoan in fishes.
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