

**A-1082**

**Total Pages : 3**

**Roll No. ....**

**MZO-612B**

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

**(Fin Fish Pathology)**

**M.Sc. Zoology (MSCZO)**

**Examination 2026 (Feb.)**

**Time: 02:00 hrs**

**Max. Marks: 35**

Note : This paper is of Thirty Five (35) marks divided in to two (02) Section A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. *Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.*

**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.

**(2x9½=19)**

**P.T.O**

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1. Discuss the major viral disease including their Causative agent affecting fin fish in aquaculture?
2. Give a brief account of the application of PCR in disease diagnosis in fisheries?
3. Discuss in detail on metazoan parasitic disease found in fishes.
4. Describe the general mechanism of replication of DNA?
5. Discuss the major fungal disease including their Causative agent affecting fin fish in aquaculture?

### **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.**

**(4x4=16)**

1. Explain the bacterial gill disease?
2. Write about the nitrogen bases found in DNA?
3. Write a short note in proof reading activity of polymerase enzyme?

4. Write a short note on Gel loading Dyes?
5. Write about the Red Spot disease in fresh water fishes?
6. Protozoan disease of Fishes?
7. Briefly explains the Electrophoretic Apparatus?
8. Explain the working Mechanism of thermal cyclers?

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