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Roll. No. :

Examination Session June-2022

(Fourth Semester)

MZO-612 B

ZOOLOGY (MSZO)

(Fish Breeding & Production Technology)

[Applied Freshwater Aquaculture]

Time : 2 Hours]

[Max. Marks : 40

Note : This paper is of Forty (40) marks divided into two (02) Section 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 Ten (10) marks each. Learners are required to answer any two (02) questions only. $2 \times 10 = 20$

1. Discuss on the fungal disease of fish.
2. Discuss on the protozoan disease of fish.
3. Explain the DNA replication in detail.
4. What are the nucleases ? Describe the endonucleases.
5. Diagrammatically explain how the target sequence is amplified in PCR reaction ?

SECTION—B

(Short-Answer-Type Questions)

Note : Section 'B' contains eight (08) short-answer-type questions of Five (05) marks each. Learners are required to answer any four (04) questions only. $4 \times 5 = 20$

1. Explain the bacterial disease of fish.
2. Write a short note on primer and significance of 3' end.
3. Write a short note on Pulse field Gel electrophoresis.
4. What is the method for DNA recovery from Gel ?
5. Write a short note on Dyes.
6. Explain the southern blotting.
7. What do you understand by Genomic DNA ?
8. Write a short note on Viral Hemorrhagic septicemia.
