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**GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY, ODISHA, GUNUPUR
(GIET UNIVERSITY)**

Ph.D. (Second Semester-Summer) Examinations, May - 2025

**23SPPEZO2011 - Fisheries and Aquaculture
(Zoology)**



Time: 3 hrs

Maximum: 70 Marks

The figures in the right hand margin indicate marks.

Answer ANY FIVE Questions.	(14 x 5 = 70 Marks)	Marks
1.a. What are the different strategies for Fishery resource management and their conservation?		8
b. Briefly describe GPS locator.		6
2. Explain ecological and social aspects of aquaculture development?		14
3.a. Preparation and management of culture ponds play a significant role in aquaculture. Justify the statement.		7
b. How do you maintain water quality in fish ponds?		7
4. What do you mean by artificial feed? Discuss the importance of artificial feed culture.		14
5.a. What are the different criteria for selection of cultivable fish species?		7
b. Give a small account on SONAR.		7
6.a. Differentiate between finfish and shellfish. Add a note on the significance of culturing these fishes.		7
b. Write a short note on probiotics and pre-biotics as feed additives.		7
7. Explain about the various fish diseases due to viral and bacterial infection.		14
8.a. What do you understand by genotobiotics? Explain methods for generating and colonizing genotobiotic fishes?		7
b. What are the molecular methods of diagnostics for fish diseases?		7

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