

Reg. No.:



Name:

University of Kerala

Y7703

Fourth Semester FYUGP Degree Examination, May 2026

Discipline Specific Elective

ZOOLOGY

UK4DSEZOO201 - Fisheries Science II-Principles of Aquaculture

Academic Level: 200-299

2024 Admission

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

**Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark
Each.Answer all questions**

Qn No.	Question	CL	CO
1	The main purpose of a fish hatchery is to Options : A)Process fish products B)Produce fish seeds and fry C)Catch wild fish D)Store fish feed	RE	3
2	Name a natural feed for stocked fingerlings like rohu, catla, and mrigal Options : A)Plankton B)Crumbled Pellets C)Micro-encapsulated Feed D)Powdered Mash	RE	4
3	Major advantage of RAS compared to traditional ponds Options : A)Very low initial investment cost B)Requires large land area C)Minimal water use and high stocking density possible D)No need for electricity	UN	2
4	Fertilizers are added to fish ponds to Options : A)Kill weeds B)To increase plankton production for fish food C)Increase pond depth D) Increase pH	UN	4
5	Extensive aquaculture is characterized by: Options : A)High stocking density B)Intensive feeding and management C)Low input and natural feeding D)Use of artificial aeration only	UN	2
6	Identify the species suitable for mariculture	UN	1

Qn No.	Question	CL	CO
	Options : A) Pompano B) Pearl spot C) Catla D) Murrel		

Part B. 8 Marks. Time: 24 Minutes. (Cognitive Level: Understand (UN)/Apply (AP)) Short Answer. 2 marks each. Answer all questions

Qn No.	Question	CL	CO										
7	Match the following <table><tr><th>A</th><th>B</th></tr><tr><td>1. Treatment pond</td><td>a. Storage of water</td></tr><tr><td>2. Stocking pond</td><td>b. Fry to fingerling</td></tr><tr><td>3. Reservoir pond</td><td>c. Isolate new or sick fish</td></tr><tr><td>4. Nursery pond</td><td>d. Seed to marketable size</td></tr></table>	A	B	1. Treatment pond	a. Storage of water	2. Stocking pond	b. Fry to fingerling	3. Reservoir pond	c. Isolate new or sick fish	4. Nursery pond	d. Seed to marketable size	UN	2
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8	Differentiate freshwater, brackishwater and seawater aquaculture based on the environment.	UN	1										
9	Identify different types of hatcheries used in aquaculture system.	AP	3										
10	Explain the importance of pond fertilization.	AP	4										

Part C. 28 Marks. Time: 60 Minutes (Cognitive Level: Apply (AP)/Analyse (AN)/Evaluate (EV)/Create (CR)) Long Answer. 7 marks each. Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A) Write notes on physical, chemical and biological factors affecting productivity of pond. OR B) Prepare a note on different steps involved in fish farm construction.	AP	3, 3
12	A) Examine the present status and scope of aquaculture in India. OR B) Analyze the criteria for selection of suitable species for aquaculture.	AN	1, 1

Qn No.	Question	CL	CO
13	A) Explain formulated feed and live feed used in aquaculture. OR B) Prepare an essay on Pre-stocking and Pond management techniques used in aquaculture.	EV	4, 4
14	A) Design an integrated aquaculture system for a small village using locally available resources. Explain how the system can improve food production, employment, and environmental sustainability. OR B) Categorize monoculture and polyculture systems in aquaculture. Discuss their advantages and disadvantages.	CR	2, 2