## 2019

## Part - II

## AQUACULTURE MANAGEMENT (Honours)

Paper - IV

Full Marks - 90

Time: 4 Hours

The Questions are of equal value for any group / half. The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

## GROUP - A

- 1. Answer any ten questions from the following: 2×10=20
  - a) What is neuston? Cite an example.
  - b) State the significance of phytoplankton in aquaculture pond.
  - c) What are the importance of sinkers?
  - d) Mention uses of float in fishing gears.
  - e) State the disadvantages of short-term fish preservation.
  - f) What do you mean by benthos? Give example.

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	h) Distinguish between sewage and sludge					
	i) What is bioaccumulation?					
	j)	Define biodegradable pollutants with exa	ımple.			
	k)	Write the name of sources of natural fi	ibres.			
	l)	State the disadvantages of synthetic fib	re.			
	m)	How would you maintain the fishing cra	ıft?			
	n)	What are the advantages and disadvanta gill net.	ges of			
	0)	Define edaphic fauna with example.				
		Group-A				
2.	An	Answer any <b>two</b> from the following: 2×10 =20				
	a)	i) What is soil?				
		ii) Classify soil with examples.				
		iii) Write in brief on the distribution of diffugues of soil in India.	ferent 2+5+3			
	b)	i) Define manure.				
		ii) Compare among fertilizers and manu	ıres.			
		iii) Give an account on the interaction of manures with soil and water in aquaculture perspective. 2+3+5				
	c)	i) Briefly discuss the physical and che nature of inland water body.	emical			
		ii) Write a note on the biological commu inland water.	nity of 5+5			
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g) Define effluents with example.

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	v) Role of so	oil in pond productivity	<b>y</b> .
	iv) Macrovege	etation.	*
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b)	Short Note:		5×3=15
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	2 1885 - Santanan 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	nic matter	
d)	Short Note:		
	Ar a) b)	ii) Soil pH iii) Physical p iv) Domestic Answer any one a) i) Define lak ii) Classify la iii) Give an ac ecosystem iv) Write a br b) Short Note: i) Pesticides ii) Biological iii) Chemical iv) Macrovege v) Role of so Answer any two a) i) Define fish ii) Distinguish fishing gea iii) Give an ac in South B b) i) Compare a fishing tec ii) State the u	<ul> <li>i) Soil pH</li> <li>iii) Physical properties of soil</li> <li>iv) Domestic waste</li> <li>Answer any one from the following:</li> <li>a) i) Define lake.</li> <li>ii) Classify lake with proper exampliii) Give an account on the ecology ecosystem</li> <li>iv) Write a brief note on eutrophic</li> <li>b) Short Note: <ul> <li>i) Pesticides.</li> <li>ii) Biological assessment of pollution</li> <li>iii) Chemical treatment of sewage.</li> <li>iv) Macrovegetation.</li> <li>v) Role of soil in pond productivity</li> <li>Group – B</li> </ul> </li> <li>Answer any two from the following: <ul> <li>a) i) Define fishing gear.</li> <li>ii) Distinguish between active artishing gears.</li> <li>iii) Give an account on different geatin South Bengal coast.</li> </ul> </li> <li>b) i) Compare among conventional atfishing techniques.</li> <li>ii) State the uses of net haulers, or and thimbles.</li> </ul>

- c) i) Differentiate mechanised fishing vessel from non-mechanised.
  - ii) Classify fishing vessels with example.
  - iii) Write a note on design of fishing craft.
- d) Short Note: 4×21/2
  - i) Purse Seine
  - ii) Negatie buoyancy
  - iii) Safety measures in fishing vessels.
  - iv) Bull trawling.
- 5. Answer any **one** question from following : 1×15=15
  - a) i) State the principle of fish freezing.
    - ii) Compare among fresh rish and spoiled fish.iii) Give a brief account on the freezing process
    - of any one shell fishes.

      iv) Add a note on the chemicals and drugs used in fish freezing.

      2+4+6+3
    - b) Short Note:
      - i) Colombo curing.
      - ii) Tunnel dryer.
      - ii) Turifiei aryer.
      - iii) Smoking.
      - iv) Fish packaging.
      - v) Sanitation in processing plants.