2+3

2021

INDUSTRIAL FISH AND FISHERIES — MAJOR

Paper: CC-13

(Aquatic Ecology)

Full Marks: 50

The figures in the margin indicate full marks.

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

Answer any ten questions.

1.	Differentiate between sympatric and allopatric species. What is ecological equivalent?	3+2
2.	Define population. What do you mean by age structure in a population?	2+3
3.	What is carrying capacity? How does carrying capacity control population growth?	2+3
4.	Write three characteristics of community. What is alpha and beta diversity?	3+2
5.	What do you mean by species dominance and species richness? How species dominance and species are related?	ecies 2+3
6.	Define Ecological Succession. Write the stages of hydrosere.	1+4
7.	What is food chain? Elaborate the idea of an aquatic food chain.	1+4
8.	How ecological pyramids are constructed? Name the basic types of ecological pyramids.	3+2
9.	What is eutrophication? Comments on the dissolve oxygen status of a water body having low I	BOD. 2+3
10.	How are laws of thermodynamics applicable to energy flow in an ecosystem?	5
11.	Differentiate between r-selection and k-selection. What do you mean by minimum mortality ecological mortality?	and 3+2
12.	State the difference between lotic community and lentic community. What are the limiting factor freshwater ecology?	ors of 2+3
13.	State any four significance of wetland conservation. How many Ramsar sites are present in Its Give any two examples.	ndia? +1+2
14.	State any three important features of GAP. What do you mean by Red Tide?	3+2

15. What is productivity? Differentiate between Gross Primary Productivity and Net Primary Productivity.