2022

ZOOLOGY — HONOURS

Paper : DSE-B(2)-2

(Fish and Fisheries)

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 *question no.* 1 and *any four* questions from the rest.

1. Answer *any five* questions : 2×5

   (a) Distinguish between placoid and cycloid scales.

   (b) Name the different types of non-mechanized crafts used for fishing in India.

   (c) What is polyculture?

   (d) Distinguish between pen culture and cage culture.

   (e) Mention two applications of GIS in fishery technology.

   (f) What is hypophysation?

   (g) Mention the benefits of compound fish diet in fishery industry.

   (h) State the main causes of fish depletion in marine environment.

   (i) Distinguish between fecundity and fertility.

2. (a) Classify class Chondrichthyes (upto subclass) mentioning two characteristics and one example of each taxon.

   (b) Describe the variations of alimentary canal in fish in relation to food and feeding habit.   5+5

3. (a) Give an account of pre-stocking and post-stocking management of fish pond.

   (b) Briefly discuss the methods and significance of processing of harvested fish.   6+4

4. (a) Describe the structure of a typical fish gill with suitable diagram.

   (b) Elaborate the mechanism of electric discharge from electric organ of fish.   6+4

5. Write the name of causal organism, symptoms and preventive measures of one protozoan and one fungal disease of fish.   5+5

Please Turn Over