



WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 6th Semester Examination, 2022

ZOOADSE04T-ZOOLOGY (DSE3/4)

FISH AND FISHERY

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

1. Answer any **eight** questions from the following: 2×8 = 16
 - (a) What are the roles of mahua oil cake in aquaculture?
 - (b) What is Catamaran?
 - (c) Name two fishes exhibiting bioluminescence.
 - (d) Distinguish between pelagic and demersal fishery.
 - (e) What is ductus pneumaticus?
 - (f) Write the name of causative agent and symptoms of 'gill rot' disease. 1+1
 - (g) How would you determine the sex of male and female carp during induced breeding?
 - (h) What is stripping?
 - (i) What is gas bubble disease?
 - (j) Define SMGT method.
 - (k) What do you mean by anadromous fish? Give Indian example. 1+1
 - (l) Mention the difference between Breeding Hapa and Hatching Hapa.
 - (m) What do you mean by Active and Passive Gear?
 - (n) What is Ovaprim? Mention its advantages. 1+1
2. Answer any **three** questions from the following: 3×3 = 9
 - (a) What is Pen Culture? Write its merits and demerits. 1½ + 1½
 - (b) Distinguish between extensive, semi-intensive and intensive fish culture. 3
 - (c) Write in brief about glass jar hatchery. Which one is superior glass jar hatchery or eco hatchery? 2+1
 - (d) Write a short note on EEZ. 3
 - (e) Describe different types of fish scales with examples. 3

3. Answer any **three** questions from the following: 5×3 = 15
- (a) Write about pre-stocking management adopted in composite fish culture. 5
 - (b) What do you mean by transgenic fish? What is your opinion about introduction of transgenic fish in aquaculture? 2+3
 - (c) Draw and describe two types of gears and two types of crafts used commonly in fishing in India. $2\frac{1}{2} + 2\frac{1}{2}$
 - (d) Classify fishes (up to subclass) with characters and example of each living taxon. 5
 - (e) What is the basic principle of induced breeding? Discuss the advantages of this technique. Briefly state the factors affecting successful induced breeding. 1+2+2

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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