REV-01
MSZ/07/14

2025/11

SET A

M.Sc. ZOOLOGY
THIRD SEMESTER
FISH AND FISHERY BIOLOGY-II
MSZ-304(C)

[USE OMR FOR OBJECTIVE PART]

Duration: 1.30 hrs. **Full Marks: 35**

Objective

Time: 15 min. **Marks: 10**

Choose the correct answer from the following: ***1X10=10***

1. Planktophagus fish have ---------- proteins than do fish having other feeding habits
   a. Qualitative
   b. Higher
   c. Quantitative
   d. Lower

2. The formation of yellow water is due to the growth of ----------.
   a. Chlorophyta
   b. Chrysophyta.
   c. Myxophyta
   d. Diatoms

3. The oligotrophic tendencies shown by some of the reservoirs are mainly due to poor nutrient status and other ----------
   a. Affluents
   b. Chemical profiencies
   c. Chemical deficiencies
   d. Heavy Metals

4. Hill stream fishes generally possesses a ----------
   a. Long, narrow and band shaped caudal peduncle
   b. Arrow shaped caudal peduncle
   c. Bow shaped peduncle
   d. All of the above

5. The Bombay Duck Fishery is more or less a local fishery of commercial importance of the Bombay Coast from Ratnagiri to Broach. Here the fishery is a single species fishery of-
   a. *Anabas testudineus*
   b. *Salmo trutta*
   c. *Aila coila*
   d. *Harpodon nehereus*

6. Development of fisheries is restricted to cold water species. These fishes have a good low temperature tolerance, the lower level of which is in the range of-
   a. 90^0c to 100^0c
   b. 45^0c to 50^0c
   c. 0^0c to 4^0c
   d. All of the above

7. In hill stream fishes the air- bladder is considerably----------
   a. Reduced or degenerate
   b. Contracted
   c. Expanded vertically
   d. Inflated

8. Utilization of leaf protein from fast growing trees/plants provide potential resources for judicious application of ----------
   a. Fish Trash
   b. Fish feed
   c. Fish meat
   d. Fish Fowl

9. Presently, the trade of indigenous ornamental fishes in our region is-----
   a. Organized
   b. Unorganized
   c. Displayed
   d. Differentiated

10. When fish migrate pass the dam or barrage through special tunnels or channels those structures are called ----------
   a. Fish load
   b. Fish run
   c. Fish pass
   d. All of the above

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(Descriptive)

Time : 1 hrs. 15 min. **Marks : 25**

[Answer question no.1 & any two (2) from the rest]

1. Discuss briefly about the fisheries of the River Brahmaputra. **5**

2. Elucidate in detail about the Biochemical composition of raw fish. **10**

3. What are planktons? Discuss in detail about plankton and their role in fisheries **10**

4. What are Hill stream fishes? Discuss briefly about the pristine conditions present in the hill streams. Elucidate the modifications and adaptive features of the Hill Stream Fishes citing suitable examples **2+8=10**

5. Elucidate in detail about dams and their effects on fish migration suggesting suitable remedies. **10**

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