

**SET
A**

Duration: 1.30 hrs.

Full Marks: 35

Time: 15 min.

Marks: 10

$$1 \times 10 = 10$$

Choose the correct answer from the following:

1. Although fat is distributed in all tissues, in some it is present in extraordinary amounts which is in far excess of the amount normally required for cell function. Such fats are called -----fats
 - a. Delaying
 - b. Décor
 - c. Depot
 - d. Delineated
2. Pelagic species of fishes particularly Sardine, Herring, Mackerel, tuna etc. have high amino acid concentrations particularly that of -----which is responsible for high meaty concentration of their flesh.
 - a. Histidine
 - b. Leucine
 - c. Arginine
 - d. Nicotidine
3. Fishes having greater protein proportion than fat fish is ----- fish.
 - a. Skin
 - b. Lean
 - c. Iced
 - d. Canned
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. *Salmo trutta*
 - b. *Anabas testudineus*
 - c. *Harodon neherus*
 - d. *Aila coila*
6. The formation of yellow water is due to the growth of -----
 - a. Chrysophyta.
 - b. Chlorophyta
 - c. Myxophyta
 - d. Diatoms

7. Phytoplankton growth is proportional to the-----
 - a. Darkness intensity
 - b. Ammonia intensity
 - c. Light intensity
 - d. Nitrite intensity
8. 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. 0°C to 4°C
 - b. 90°C to 100°C
 - c. 45°C to 50°C
 - d. None of the above
9. Brain of fish shows the highest concentration of -----
 - a. Esters
 - b. Fats
 - c. Minerals
 - d. Histidine
10. Fish locks are mechanical gates with arrangements for the regulation of flow of water
 - a. Into and out of the lock
 - b. Up the lock
 - c. Down the lock
 - d. Cannot be determined

(Descriptive)

Time : 1 hrs. 15 min.

Marks : 25

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

1. Highlight in detail the fisheries of the river Brahmaputra. 5

2. 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 3+7=10

3. Discuss briefly about the freshwater Inland Capture fisheries of India 10
- Or
- Discuss the effects of dams on fish migration suggesting suitable remedies

4. Elucidate in detail the Biochemical Composition of Fish 10

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

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