

**M.Sc. Marine Biology**  
**Semester – III Examination October -2019**  
**Paper-10: Fishery Science** **Subject code: 21688**

Time: 2.30hrs

Total marks:70

Q1A Explain the internal ear of shark with diagram. 14

OR

- a. Write a short note on age determination of fish.
- b. Explain Male Urogenital system of Shark with diagram.

Q1B Answer any four from the following questions: 04

- i. How many pairs of cranial nerves are present in dogfish?
- ii. Write a scientific/English name of jawed fish.
- iii. Give any two examples of jawless fish.
- iv. What do you mean by fecundity of fishes?
- v. How many pair's gill slits are present in Shark?
- vi. What is role of swim bladder in body of a fish?

Q2A Write an essay on migration of fish. 14

OR

- a. Write note on Kerala Backwater resources.
- b. Write short note on population density of fish.

Q2B Answer any four from the following questions: 04

- i. What is estuarine policy?
- ii. What is amphidromous migration of fish?
- iii. Give any two example of economically important fish of Narmada estuary.
- iv. Which dye is commonly used in marking method of fish?
- v. How many types of environmental values are there for estuaries?
- vi. Which are the major threats affecting estuarine fisheries?

Q3A Write an essay on Bombay-duck fishery in India. 14

OR

- a. Write an essay on Chank fishery in India
- b. Explain: why fishermen need fund?

- Q3B Answer any three of the following; 03
- i. What is a fishery cooperative?
  - ii. Write scientific name of tiger prawn
  - iii. What is the use of probiotics?
  - iv. Who is middlemen in fishery sector?
  - v. What are the component of working expenses of fishermen.
- Q4A Describe in detail: Trawl net with diagram 14
- OR
- a. Describe Built up boats.
  - b. Write a note on Rampani boat
- Q4B Answer any three of the following; 03
- i. What is mother ship?
  - ii. What is a head rope in a fishing net?
  - iii. Name the traditional boat of west Bengal.
  - iv. What is an inshore fishing?
  - v. Write full form of VHF

\*\*\*\*\*