



NBU-003-018401 Seat No. _____

M. Sc. (Zoology) (Sem. IV) (CBCS) Examination
April / May - 2017

Z-419 : Aquaculture & Fisheries Technology

Faculty Code : 003
Subject Code : 018401

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Answer the following very briefly : (any seven) **2×7=14**

- (a) Briefly describe how business opportunities are created in aquaculture.
- (b) Describe how the fishes are classified.
- (c) Describe the concept of extensive fish culture.
- (d) Write the applications of hook and line technique.
- (e) Name few fish diseases caused by protozoans.
- (f) Write few principal opportunities of aquaculture.
- (g) Define the term overfishing.
- (h) Write uses of fish meal.
- (i) Give few names of the main marine fish landing sites of Gujarat.
- (j) Describe the major disadvantages of preservation by drying.

2 Write short notes : (any two) **7×2=14**

- (a) Describe hoop net and its applications.
- (b) Describe the freshwater aquaculture techniques used in India.
- (c) Give a short account on the bacterial diseases of fish and their control

3 Answer the following: **7×2=14**

- (a) Briefly describe the process of fish preservation by freezing.
- (b) Write a note on the major fungal diseases of fish and their control.

OR

3 Answer the following : **7×2=14**

- (a) Describe the accessory respiratory organs in fish and their evolutionary significance.
- (b) Briefly describe the reproductive behavior in fish.

4 Answer the following : **7×2=14**

- (a) Write a short note on the major fish byproducts.
- (b) Briefly describe fish processing techniques.

5 Answer the following : (any two) **7×2=14**

- (a) Write a note on the hypophysation techniques of fish artificial breeding
- (b) Write a short note on any two traditional fishing boats of Gujarat
- (c) Describe pomfret fishery in Gujarat, it's fishing season and main landing sites.
- (d) Write a short note on the fish marketing strategies.
