

M.Sc. (Zoology) Fourth Semester Old  
**MSC15-2 - Special Group-Fish & Fisheries III**  
**(General Studies Paper-III)**

P. Pages : 1

Time : Three Hours



**GUG/W/18/2436**

Max. Marks : 80

- Notes :
1. All questions are compulsory.
  2. All questions carry equal marks.
  3. Illustrate your answers with well labelled diagrams wherever necessary.

1. Describe the alimentary canals of the cyprinids. **16**  

**OR**

Write notes on:

  - a) Types of Kidney in teleosts.
  - b) Digestion and absorption of food.
2. Write an account on migration in fishes. **16**  

**OR**

Write notes on:-

  - a) Structure and functions of taste buds.
  - b) Role of hormones in migration.
3. Describe the mechanism of spermatogenesis. **16**  

**OR**

Write notes on:

  - a) Hormonal control oogenesis.
  - b) Histology of Ovary
4. Explain the hormones of pituitary gland with reference to their role. **16**  

**OR**

Write notes on:

  - a) Adrenal gland
  - b) Corpuscles of Stannius
5. Attempt the following: **16**
  - a) Diadromous fishes.
  - b) Cellular composition of olfactory epithelium.
  - c) Structure of female Reproductive system.
  - d) Neurohypophysis and ultimobranchial gland.

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