

M.Sc. (Zoology) (CBCS Pattern) Sem-III
PSCZOOT10-2 Paper-X Special Group : Fish & Fisheries Paper-I :
General Studies

P. Pages : 1

Time : Three Hours



GUG/W/22/11308

Max. Marks : 80

- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw suitable diagrams wherever necessary.

1. Describe in detail the development of jaws and limbs in fishes. **16**

OR

Write notes on:
 - a) General characters of Placoderms.
 - b) Origin & evolution of fishes.
2. Describe in detail general characters and classification of Chondrichthyes. **16**

OR

Write notes on:
 - a) Affinities of Actinopterygii.
 - b) Affinities of Elasmobranchs.
3. Describe in detail the structure of gills in fishes & add a note on gill histology. **16**

OR

Write notes on:
 - a) Gaseous exchange in teleosts.
 - b) Affinities of Dipnoi.
4. Give an account on origin development and types of air bladder in fishes. **16**

OR

Write a note on:
 - a) Accessory respiratory organs in fishes.
 - b) Origin of air breathing organs.
5. Attempt the following. **16**
 - a) Affinities of placoderm
 - b) General characters of Acipenseriformes.
 - c) General character of Dipnoi
 - d) Functions of air bladder.
