

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

P. Pages : 1

Time : Three Hours



**GUG/W/23/11308**

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
  2. All questions carry equal marks.
  3. Draw well labelled diagram are necessary.

**1. Describe in details development of limbs in fishes. 16**

**OR**

- a) Write note on Fossil record and classification of Fishes.
- b) Classification and general characters of Placoderms.

**2. Give a detail account of affinities and characters of Elasmobranchs. 16**

**OR**

- a) Write general characters of Holocephali.
- b) Write a note on Affinities of Actinopterygians.

**3. Describe details on origin, fossil Dipnoians and distribution of Dipnoians. 16**

**OR**

- a) Describe gaseous exchange in teleost.
- b) Describe on structure of gills in fishes.

**4. Describe details on Accessary respiratory organs of fishes. 16**

**OR**

- a) Describe types of air bladder.
- b) Give the details on Blood supply to air bladder and functions of air bladder.

**5. Write short notes on the following. 16**

- a) Affinities of placoderms.
- b) General characters of Actinopterygii,
- c) Affinities of dipnoi
- d) Physostomous.

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