Page 01

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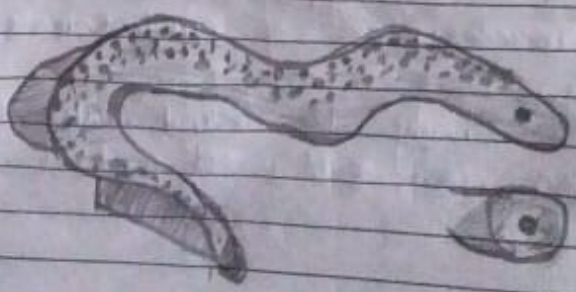
Bsc part 2, Paper (II A)

Ques- Cyclostomata ka Classification ko likhtay hua chitra varnan karey.

Ans:- The Cyclostomata are the modified and degenerate offshoot of the primitive vertebrate Stalk. Due to their circular mouth they are named Cyclostomata.



Cyclostomata is a group of agnathans that comprises the living jawless fishes: the lampreys and hagfishes. Both groups have jawless mouths with horny epidermal structures that function as teeth, and branchial arches that are internally positioned instead of external as in jawed fishes.

They are parasitic, usually feeding on fish in their adult stage. Morphologically, they resemble eels. they are known to be the only living vertebrates without true jaws, hence called Agnatha. Cyclostomata includes hagfishes and lampreys.

Characteristics of cyclostomata :-

i) The body is round and elongated like an eel.

Eg:- Myxine & Paramyxine.

Further Reading / Animal kingdom classification:-

~~For more Information on Cyclostomata visit Byjus app~~

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Date
04

Lampreys or lamper eels belong to this order.

→ They are found in both marine and freshwater.

→ They have a ventral mouth with many horny teeth.

→ The nostril is present dorsally.

→ They possess a well-developed dorsal fin.

→ The dorsal and ventral roots of spinal nerves are separate.

→ The development is Indirect.

→ Eg:- petromyzon, Lampetra.

Myxiniformes :-

Hagfishes represent this order.

→ They are found exclusively in the marine environment.

→ They have a terminal mouth with fine teeth.

→ They have no buccal cavity.

→ The nostril is terminal.

→ They possess 6- 14 pairs of gill slits

→ The dorsal and ventral roots of the spinal nerves are not separate.

→ Eggs are large and few in number.

→ The dorsal fin is usually absent or weak.

ii) The paired fins are absent.

iii) Median fins with Cartilaginous fin rays.

iv) No paired appendages

v) The skin is soft and smooth, devoid of any scales.

vi) Spleen is absent.

vii) The exoskeleton is absent. The endoskeleton is Cartilaginous with no bones.

Also read: Chordata:-

Sub-Divisions of Cyclostomata.

The Cyclostomes are Sub-divided into two major orders.

→ Petromyzontiformes:-