Topic: difference between Lamprey and hagfish. Marks: 4

Lamprey (petromyzon) Hagfish (Myxine)

1. Lamprey is found both in marine and fresh water.

\* Hagfish are exclusively marine.

1. Body is slender, eel like rounded with naked skin.

\* Body slender, eel like rounded with naked skin containing slime gland.

1. Sucker like oral disc and tongue with well developed teeth. \*Biting mouth with row of reversible teeth.
2. 7 pairs of gills each with external gill opening.

\* 5-16 pairs of gills with a variable no. of gill opening.

1. Eyes well developed in adult.

\* Eyes are degenerate.

1. Sexes are separate, long larval stage consisting of ammocoete larva.

\*Sexes are separate, no larval stage , development is direct.

1. Cartilaginous oral ring present.

\*Cartilaginous oral ring present.

1. Brain is well developed.

\*Brain with larger olfactory lobes.

N.B. \*mark is differentiated hagfish from Lamprey.

you may concern A text book biology of animals by adikary, sinha and ganguly.