

Toksion in Mollysca

Torsion is defined as the rotation of the visconal organs to an angle of 180° in the anticlockwise direction It occurs in the larva of gastropoods. It converts the symmetrical lorva into an asymmetrical adult. Torsion occurs in majority of gastropoods the gastropoods exhibiting torsion are included in the group streeptoeura eg Pila.

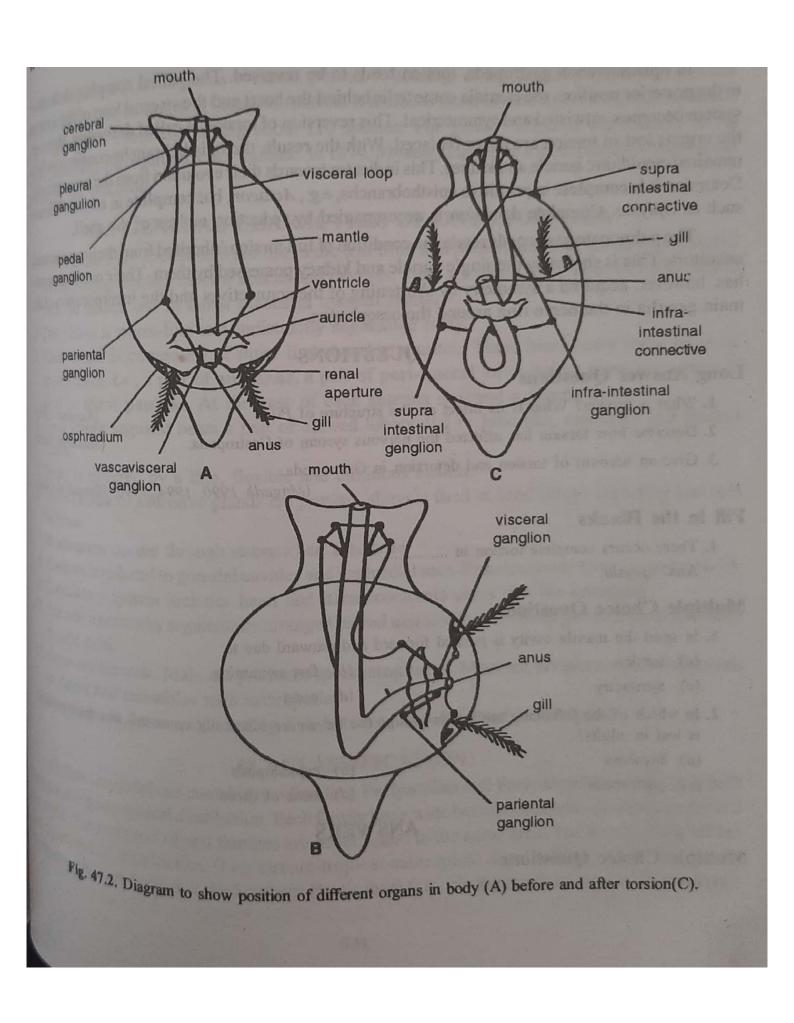
Process of Torsion

The larva of gastropod is symmetrical. the symmetrical larva has the following features -

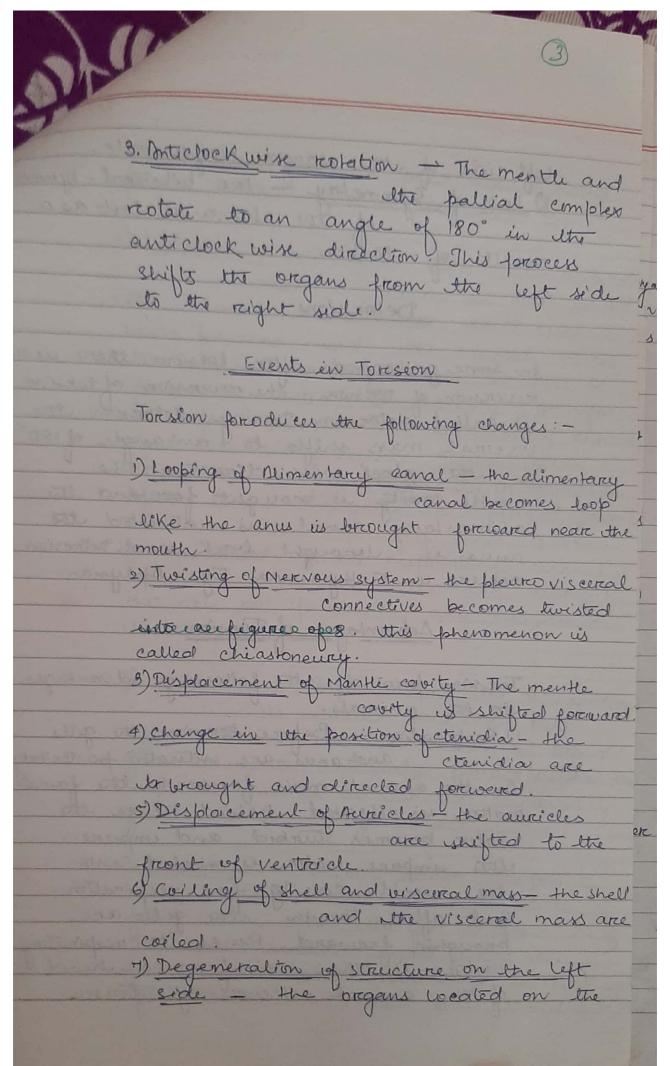
It I mouth at the anterior end and the arms at the posterior end.

- 2. The mentle covity is located on the posterior side.
- 3. The ctenidia are located fosteriorly 4. The nervous eystem is bilaterally symmetrical.
- 5. The auxicles lie posterior to the ventricle.

The larva develops torsion in order to become the adult.



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left side of the larvor degenerate.

3) Loss of Symmetry — the bilateral-symmetry of the larvor is lost as a result of torision. Deforsion In some gastropods, after torsion, there is a reversion of torsion. The reversion of tersion us called detorsion During detorsion the Visceral mars shifts to an angle of 180° in the clock wire direction the mentle cavity is brought forward the alimentary canal us curtivisted the beclers in Futhyneura, Egs-Aplysia. Advantages of Forsion Torcsion forcovioles the following advantages to the animals. 1.) Respiration - Before torsion the gills and any are situated foosteriorly As the animals move forward, the farcal matter is released behind. Hence the water becomes turbed and impere Utis impure worter is inhaled into elte mentle cavily from respiration. But after torsion the gills are brought forward. Hence the respiratory water is taken in from a head of the animal. Hence my torsion

the animal gets the previlege of using forme water for respiration. 2) Locomotion - Before tonsion the respiratory water us taken in from behind the animal Hence this water everrent moves forward inside the animal when the animal moves forward it how to fourth the water - back wardly so before so before torsion the responditory current and beomology current oppose each other. This ereates difficulty to locomotion After toresion the gills are placed forwards and hence the resperatory water is tarken from ahead. so the respiratory current. Evinerales with the locomotanty everent. this does not forcodu el any hindrance to locomotion. 3) sensation - Before torsion the ospharadium is vituated beckward But after torsion the ostalnadum is brought forward this anteriorly blaced espharadium helps the animal to test the suitability of the water lying ahead. a) Protection - Before torsion the foot is withdrawn into the body first only after the foot is drawn in The more vensitive parts like the head and ctenidia are taken in But after toxision the head and cleridia

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