

## Male Reproductive System?

Sexes are separate. In male the inner margin of the pelvic fin bears a pair of copulatory organs called claspers. Male reproductive system consists of following organs:

- ① Testes
- ② vas-deferentia
- ③ Seminal vesicle
- ④ Urinogenital sinus.
- ⑤ Sperm Sac
- ⑥ Claspers.

The testes are soft, cylindrical, whitish paired structure extend from the base of the liver <sup>to</sup> in front of rectal or caecal gland. They remain attached to a dorsal wall called meso-archium. The testis consists of innumerable minute seminiferous tubules. Several vasa efferentia arise from each testis. These vasa efferentia enter into the each part of kidney and open into the greatly coiled Wolffian duct or vasa-deferentia. Behind the thicker part of the kidney, the vas deferens enlarges so as to form seminal vesicle the seminal vesicle of two sides open behind into the urinogenital sinus which is triangular in appearance and opens into the cloaca on an elevated urinogenital papilla.

The urinogenital sinus carries a pair of club-shaped sperm sac of unknown function as lateral outgrowth. A pair of enlarged and glandular sac like siphons are present on the ventral surface of the body under the skin which ends blindly at the base of pectoral fins anteriorly and open into the groove of the clasper posteriorly. These are filled with sea-water and force the sperm from from cloaca into cloaca into clasper groove of the female.