

①

HUMAN REPRODUCTIVE SYSTEM.

Human beings use sexual mode of Reproduction.

The reproductive system in human beings become functional at a definite age called puberty.

Organs associated with the process of reproduction in males and females are different so the reproductive system in these are different.

The Male Reproductive System.

Followings are the organs associated with this system :-

1. Testes → These are two oval shaped organs.
These lie in a protective bag, lying outside the body.
 - Testes produce male gametes called sperms.
 - These organs also produce a hormone called Testosterone.
 - Production of sperms takes place at lower temp outside, which is -3°C of normal body temp.
2. Scrotum → It is a small muscular bag, situated outside the abdominal cavity. This sac or bag provide space for lying Testis.
3. Epididymis → A coiled tubular/bag like structure which is situated above to testis.

(2)

This bag which is connected with Testis act as storage sac, stores sperms.

4. Vas deferens / sperm duct → A long tube like part, which joins the another tube called Urethra.

- It runs anteriorly up to the urinary bladder, also joins a duct from the seminal vesicle.
- Involved in transfer of sperms from Testis to Urethra.

5. Penis → It is a muscular, tubular organ, made-up of loose tissue.

- On being stimulated, it discharge the male gamete.
- This part is also involved in Humans for discharging urine / releasing urine, so it act as common passage.

Glands Associated with this system.

1. Seminal Vesicles → These are two elongated sacs which lie at the base of urinary bladder.

- These glands produce viscous and Alkaline liquid, which makes 60-70% Semen.
- Liquid is rich in Fructose, protein for nourishing sperms.

(3)

2. Prostate gland → It is a single large gland.
It lies in the area of union
of Urethra and duct from seminal
vesicles.
- Produces thick, milky and Alkaline
liquid, makes 20-30% of Semen Plasma.
 - Help in easy movement of male gametes

3. Cowper's glands → These are a pair of small
glands, lie below to prostate.
- Opens into Urethral duct.
 - Secretes a liquid rich in mucus.
 - The liquid lubricates urethral duct.

The liquid substances
released by these glands collectively called Semen
which carry 300-400 millions sperms. This liquid
help in :-

- I) Providing nutrients for growth of sperms.
- II) Easy movement of sperms from vas deferens
to Urethra.