

Reproduction in Animals

Sexual Reproduction in Human

SEXUAL REPRODUCTION

Reproduction resulting from the fusion of male and female gametes is called sexual reproduction.

OR

The type of reproduction in which fusion of male & female gamete occur is called sexual reproduction.

Important features of sexual reproduction are given below:

- (i) It involves two different parents i.e. one male and one female.
- (ii) Each parent produces gametes.
- (iii) Male gametes are called sperms while female gametes are called ova or eggs.
- (iv) The fusion of male and female gametes is called fertilization. It results in the formation of a single diploid cell zygote.
- (v) The zygote undergoes repeated mitotic divisions to form embryo which differentiate to form full organism.
- (vi) The organisms produced in this type of reproduction are genetically different from both the parents and can resemble in certain features with parents.

Differences between sexual and Asexual reproduction :

Types of animals on the basis of presence of sex organs :

(a) Unisexual Animals :

Those animals in which male and female sexes remain separate e.g. Human beings, Cow, Cat, Dog.

(b) Bisexual Animals :

- Those animals in which male and female sex organs are present in single body are called bisexual or hermaphrodite e.g. Earthworm, Taenia solium, Leech

HUMAN REPRODUCTIVE SYSTEM

Male Reproductive organs : The male reproductive system of humans consists of the following organs.

(1) Testes (2) Vas deferens (3) Urethra (4) Penis

1. Testes : There is a pair of testes which lie outside the body within the scrotum. They produce millions of sperms.

2. Vas deferens : Vas deferens are two in numbers. This duct connects each testis to the urethra. It carries sperms to the urethra along with the secretion of reproductive glands. This mixture of sperms and secretions is called semen.

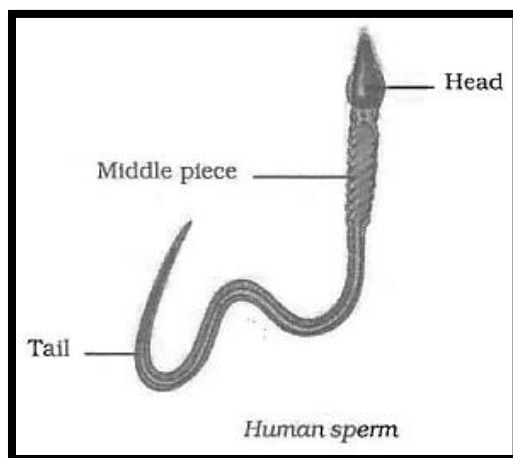
3. Urethra : The two vas deferens open into the urethra and pass through the penis.

4. Penis : Urethra leads to a muscular organ called penis. It is used to deliver semen into the vagina of the female during mating. It is used to pass urine as well.

The main function of testes is to produce sperms.

Sperm: It consists of the following parts:

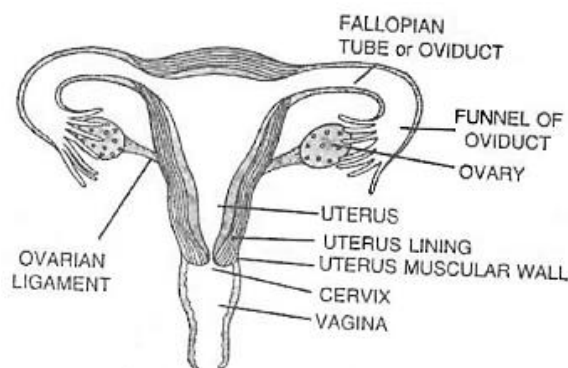
(i) Head (ii) Neck (iii) Middle piece (iv) Tail



The sexual maturity in human males is attained around the age of 13 to 14 years. Sperms are produced in millions by the testes. They are very small in size. Each sperm consists of a head, a middle piece and a tail. Sperms swim in semen with the help of a tail.

Female Reproductive Organ : The female reproductive system of humans consists of the following organs.

- (1) Ovaries
- (2) Oviduct (fallopian tube)
- (3) Uterus
- (4) Vagina



Female Reproductive Organs

1. **Ovaries:** There are two ovaries which are situated in the abdominal cavity. Each ovary produces one mature ovum (egg) every month by a process called ovulation. Like sperm, an egg is also a single cell.
2. **Oviduct (fallopian tube) :** It is a muscular tube which joins the uterus with the ovary. It carries the ovum into the uterus.
3. **Uterus:** It is a hollow, muscular, pear-shaped organ. The development of the baby takes place inside it. The lower narrow part of the uterus is called cervix.
4. **Vagina:** The uterus opens into a wide muscular tube called vagina. The vagina receives the penis during sexual intercourse. The sperms are discharged into the vagina.