

Study guide 3

1. Reproduction

- It is generation of new individuals from existing ones. It can be asexual (no fusion of gametes) or sexual (male gamete fuses with female gamete to form zygote)
- Mechanisms of asexual reproduction include
 - (a) **Fission**-Ex. Protists
 - (b) **Fragmentation**-Ex. Planaria
 - (c) **Budding**-Ex. Hydra
 - (d) **Parthenogenesis**- development of a new individual from an unfertilized egg
 - (e) **Regeneration** – Ex. Star fish
- Almost all eukaryotic species reproduce sexually; an advantages include increase in variation, rate of adaptation and elimination of harmful genes.
- The season of breeding is usually most favorable one for the young ones to survive in seasonal breeders
- **Monogamoditism**, each individual has both male and female reproductive systems, Ex. earthworms
- **Sex reversal** - Clownfish are initially male; the largest fish in a group becomes a female.
- In most species individuals have **gonads** (Testis in male and ovary in female) which produce gametes (sperm in male and egg in female); fertilization occurs when male gamete(sperm) fuses with female gamete(egg)
- It can be
 - o **External fertilization** – in fishes' eggs shed by the female are fertilized by sperm shed into water by males
 - o **Internal fertilization** - sperm are deposited in or near the female reproductive tract, and fertilization occurs within the tract
- In non-mammalian species, there is a common opening to the outside, cloaca.
- In female fruit fly sperm are stored in spermathecae during copulation. Female uses stored sperm to fertilize each egg as it enters uterus before it goes out through vulva

Human Reproductive System - Human reproduction is coordinated by hormones from the hypothalamus, anterior pituitary, and gonads

- **Male:** The male gonad, testes consists of seminiferous tubules where sperm are formed. Sperm pass into the coiled tubules of the epididymis. Testes are held in sac like scrotum outside the abdomen as they cannot tolerate body temperatures. During **ejaculation**, semen (sperm along with secretions of accessory glands) is propelled through the muscular **vas deferens** and the **ejaculatory duct**, and then exits the penis through the **urethra**.
 - o Sperm consists of a head, neck and a tail. Acrosome at the head penetrates the egg. Mitochondria in the neck provide energy needed for movement of the tail
- **Female:** gonads are ovaries which contain follicles with partially developed eggs called oocytes. **Oogenesis** is the process of development of eggs. The egg cell travels from the

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