

**CLASS XII (2018-19)**  
**BIOLOGY (THEORY)**

**Unit VI    Reproduction**

**30 Periods**

**Chapter 1 : Reproduction in Organisms**

Reproduction – a characteristic feature of all organisms for continuation of species; modes of reproduction – asexual and sexual reproduction; asexual reproduction – binary fission, sporulation, budding, gemmule formation, fragmentation; vegetative propagation in plants.

**Chapter 2 : Sexual Reproduction in Flowering Plants**

Flower structure; development of male and female gametophytes; pollination – types, agencies and examples; outbreeding devices; pollen-pistil interaction; double fertilization; post fertilization events – development of endosperm and embryo, development of seed and formation of fruit; special modes – apomixes, parthenocarpy, polyembryony; significance of seed dispersal and fruit formation.

**Chapter 3 : Human Reproduction**

Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis – spermatogenesis and oogenesis; menstrual cycle; fertilization, embryo development upto blastocyst formation, implantation; pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea).

**Chapter 4 : Reproductive Health**

Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control – need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies – IVF, ZIFT, GIFT (elementary idea for general awareness).

**Unit VII    Genetics and Evolution**

**40 Periods**

**Chapter 5 : Principles of Inheritance and Variation**

**Heredity and variation** : Mendelian inheritance; deviations from Mendelism – incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea

# Biology Notes Chapter Wise 12th

**Daniel F McAuley**



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