

UNIT VI

Chapter – I: - REPRODUCTION IN ORGANISMS

1. Important terms of Reproduction:

1. **Vegetative propagules:** The vegetative parts of plants which are used to raise new plants e.g. Rhizome, Bulb, tuber etc.,
2. **Juvenile phase:** The period of growth of an organism from birth to reproductive maturity. In plants this phase is called vegetative phase.
3. **Oestrus Cycle:** The reproductive cycle of non-primate mammals is called oestrus cycle which consists of a few days of oestrus or heat. The female shows strong urge and allows male to copulate. Ex. Cow, Sheep, Tiger.
4. **Menstrual Cycle:** The reproductive cycle of primate mammals such as Monkeys, Apes and humans is called menstrual cycle in which monthly flow of blood and dead tissues takes place through genital organs.
5. **Gametogenesis:** The process of formation of gametes.
6. **Homogametes or Isogametes:** When gametes are similar in shape and size e.g. Algae.
7. **Heterogametes:** In majority of organisms, two distinct types of gametes are produced. The male gametes is called antherozoid or sperm while female gamete is called egg or ovum.
8. **Homothallic and Monoecious:** When an organism has both male and female reproductive organs. E.g Fungi, maize plants, Coconut plant.
9. **Heterothallic and Dioecious:** When male and female reproductive organs are found on two separate organisms. Such organisms are called Unisexual. E.g Date palm tree, Palm tree and cockroach.
10. **Hermaphrodite or Bisexual:** When an organism has both male and female sex organs e.g earthworm, Leech etc. A majority of flowers are hermaphrodites.
11. **Meiocytes:** Specialised cells which undergo meiosis found in Diploid organisms.
12. **Pistillate:** When a flower has only female sex organ (carpel or pistil)
13. **Staminate:** When a flower has only male sex organ i.e stamens.
14. **Pollination:** The transfer of pollen grains from anther to stigma.
15. **Syngamy:** The fusion of male and female gametes.

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