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Sub. – Biology

Class 12<sup>th</sup>

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## LESSON 1      Reproduction in Organisms

### DIFFERENT PHASES IN SEXUAL REPRODUCTION:

a. Juvenile phase – The period between birth and sexual maturity is called juvenile phase. In plants it is known as vegetative phase. The end of juvenile/vegetative phase marks the beginning of the reproductive phase.

b. Reproductive phase-

- Some plants show flowering in particular season and some other flowers in all seasons. Some other plants like bamboo species flowers once in life time (after 50-100 years), *Strobilanthus kunthiana* (neelakuranji), flowers once in 12 years.
- The female placental animals exhibit cyclic change in activities ovaries and accessory glands as well as hormone during the reproductive phase.

### Menstrual cycle

- It occurs in monkeys, apes and human beings.
- Cycle consists of 3 phases-menstrual, proliferative and secretory phase.
- Blood flows in the last few days of the cycle. The broken endometrium is passed out during menstruation.
- Female does not permit copulation during menstrual phase of the cycle.