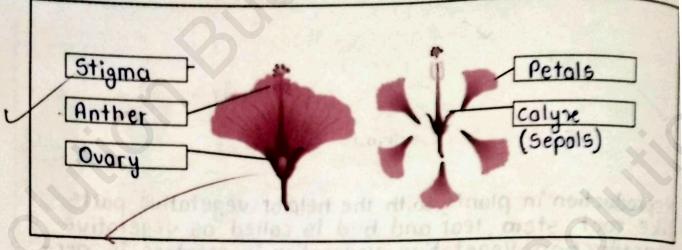
# Practical No. 3

Aim: To study the reproductive system in Hibiscus flower.

Apparatus: Hibiscus flower, forcep, blade, simple microscope, etc.

Figure: (Label the following diagram.)



## Procedure:

- 1. Observe the Hibiscus flower and note down its whorls.
- 2. Separate androecium and gynoecium by removing sepals and petals.
- 3. Take a longitudinal section from stigma to ovary with the blade.
- 4. Observe anthers in the same way.

#### Observation:

Whorl	Number of components	Structure	- Function
Calyx	Five	Green sepals	To make flower green protect ovary
Corolla	Five	different petals	to coloured flower
Androecium	Innumerable stamens	Anthers	To produce pollen grains
Gynoecium	five scarples	Stigma, Style, avary	For fertilization

### Inference / Conclusion:

- 1. Androcium .... from flower is male whorl, while any noecium is female whorl
- 2. Male gamete from pollen grain and egg cell from ovule, these two haploid cells unite to form a diploid zygote. Thus the process of seed and fruit formation begins.
- 3. Flower is the reproductive organ of plants.

# Multiple Choice Questions and ..... are the essential whorl , Cabx b. Corolla S'Androecium & Gynoecium ..... is not unisexual flower. 2 Coconut b. Papaya S. Gulmohar d. Water-melon The process of union of male gamete with egg cell is called .......... fertilization. b. pollution. c. double fertilization. d. germination. Second male gamete unites with two polar nuclei to form ......... a tygote. b. embryo. c. embryo sac. d. endosperm. e Aler fertilitation ...... develops into seed and ...... into fruit. a endosperm belovary c. embryo sac de lege cell : Exercise : Seds of some plants don't germinate. How are their next genetation formed? some plants dan't germinate. At that time we use the methode of asexual reproduction in plant, known as 'Vegetative propagation! Gy using this method, Plants stem, leaves or any part of this plant is kept in soil then the next generation is produced of that species. 2. What are the artificial methods of vegetative reproduction in plants? Give examples. In plants, from the leaf, Stem and root the vegetative propagation is accured. The sugarcane, potatoes, Bryapyta are some examples of this methods. 3. Why does hibiscus not bears fruits even though androecium and gynoecium present in it? Mbiscus can not bears fruits even though androecium and synaecium present in it because the avele transfer into seed but the ovary does not converts into fruit-4. Why do androecium and gynoecium of same flower matures at different time? Androecium and gynoecium of same flower matures at and mature with there specific condition only with respect to their food. Remark and Signature