



**DAY**  
**1ST**

**SUPER**  
**30**

**CLASS 12TH**

**BIOLOGY**



Corpus luteum produces :

1. Oestrogen
2. Androgens
- ✓ 3. Progesterone
4. Prolactin

Yellow body → Produced after

• Maintaining Pregnancy

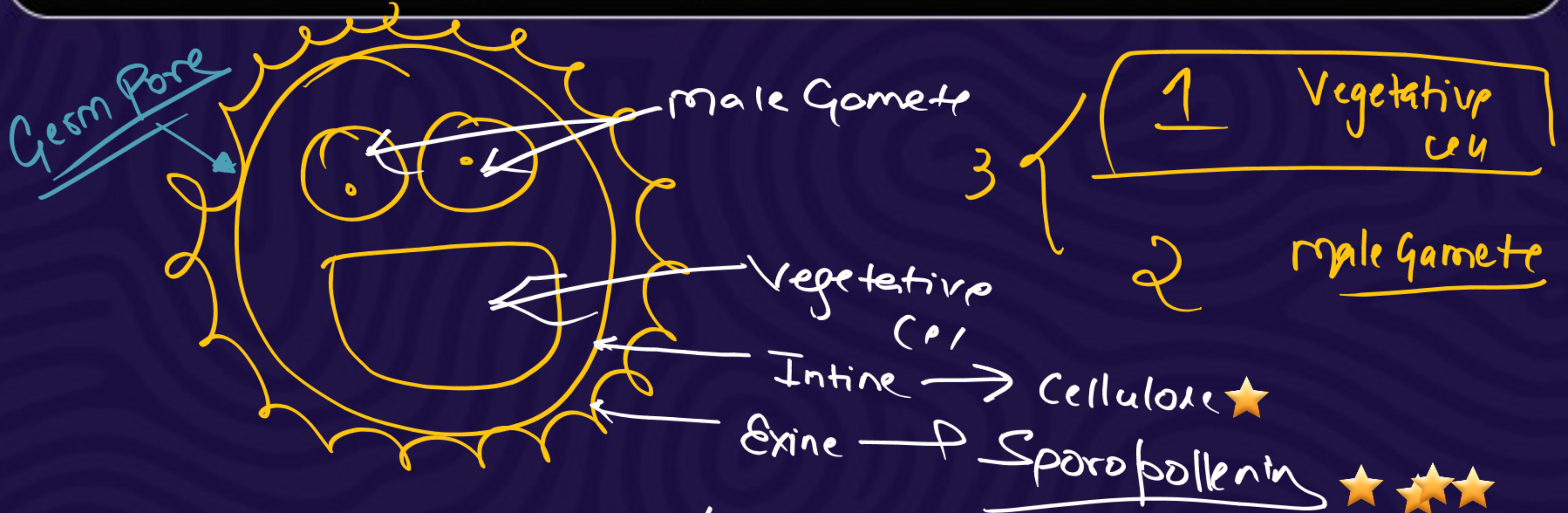
↳ Endometrium

Ovulation

\* Implantation → Endometrium

Write answers of following: i- Stigma

On reaching stigma pollen grains become Three celled, out of which 2 are male gametes, 1 vegetative cell. The pollen tube emerges through Vegetative Cell





Draw a neat and labelled diagram of the longitudinal section of an ovule in an angiosperm. Also label the Embryo-sac and micropyle





Which one of the following adaptations is seen in plants to promote self-pollination?

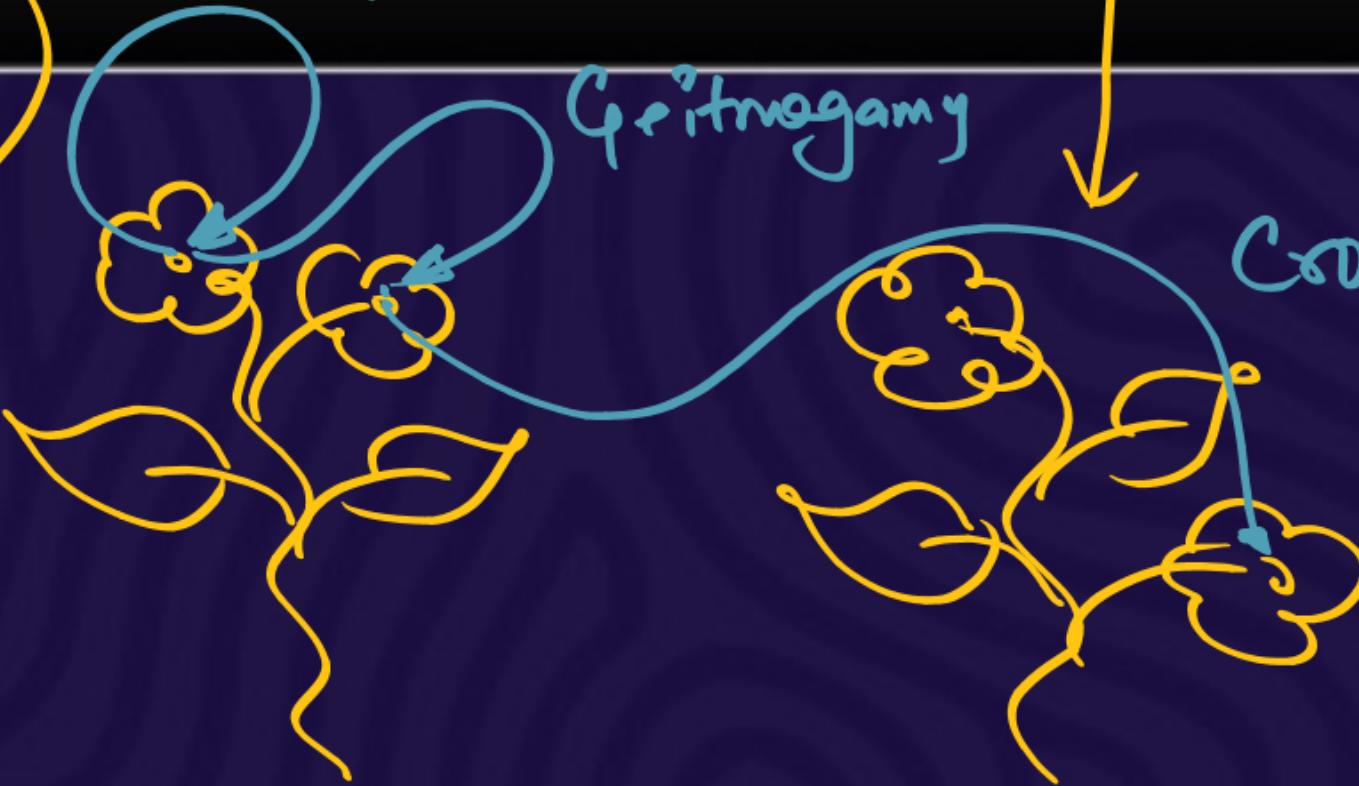
- ✓ 1. Cleistogamy → flowers do not open
2. Dichogamy
3. Unisexuality
4. Self-sterility

(Autogamy)  
Self pollination

Promote  
Cross pollination

Geitonogamy

Cross pollination  
(Xenogamy)





The edible part of the Apple is

1. ✓ fleshy thalamus → false fruit.
2. Mesocarp
3. pericarp
4. endosperm

Widal test



## SUPER 30 BIOLOGY

List any two adaptations found in Entomophilous flowers. → Insect pollinating

OR

List any two adaptations found in Anemophilous flowers. → Wind pollinating.

Insect →

- Colourful flower, Pollen-Sticky.
- Nectar-R.

Wind →

- Pollen - light wt., Pollen - Non-Sticky.
- Stigma - feathery.
- flower - may not be colourful.



Briefly explain double fertilization in angiosperms.

(+2)

→ • Syngamy

male Gamete  $(n)$  + female Gamete / egg cell  $(n)$  → Zygote  $(2n)$

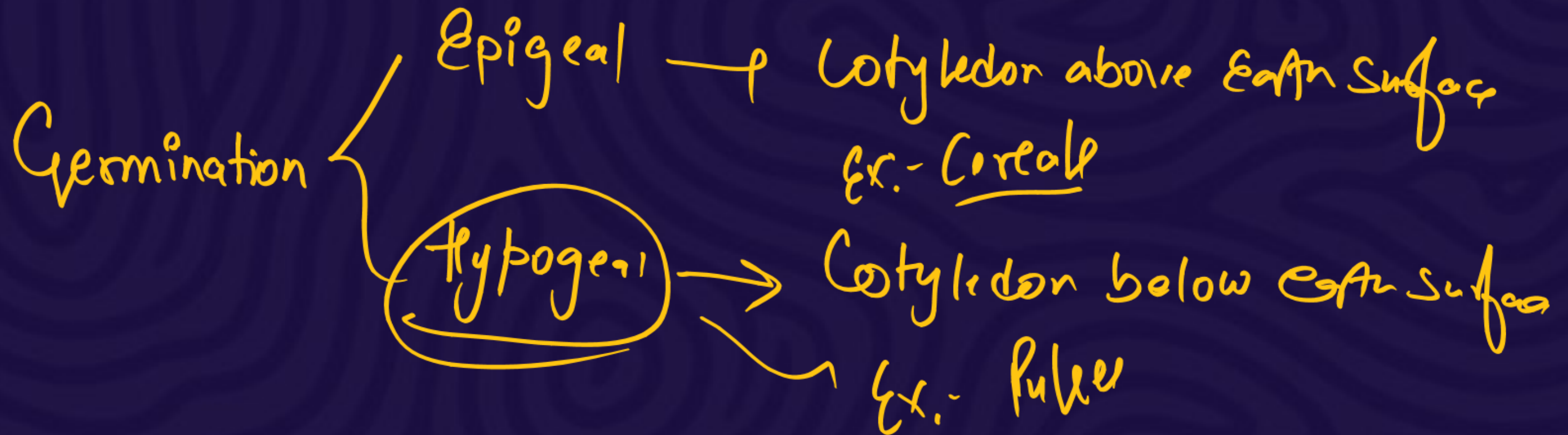
• Triple fusion

male Gamete  $(n)$  + 2 Polar nucle  $(n+n)$  → PEN  $(3n)$   
(Primary Endosperm Nucleus)



write answers of following:

1. During germination of seeds, the first part energies out is Radicle.
2. Plumule part grows into shoot system.
3. When cotyledons come above the soil surface, the germination is known as Epigeal.
4. Hypogeal germination is observed in Pulse plants.



The edible part of the coconut is

1. fleshy thalamus
2. Mesocarp
3. pericarp
4. endosperm

Endosperm { Nuclear → fluid  
Cellular → Solid

when both Per. + Helobial Endosperm Coconut

+ lig - Nuclear Endo  
White Kernel + Cellular Endosperm.



What is the function of Endosperm in the flowering plants ? Write the names of any 2 types of endosperms.

→ Provide Nutrition to Embryo

Seed in a fruit is a :

1. Ripened ovule
2. Formed by an embryo
3. Developed ovary
4. Developed thalamus



The edible part of the Mango is

1. fleshy thalamus
- ✓ 2. Mesocarp
3. pericarp
4. endosperm

fruit wall  
(Pericarp) { Endocarp → Hard on Seed.  
mesocarp → in mango - edible  
Ectocarp → Chilla

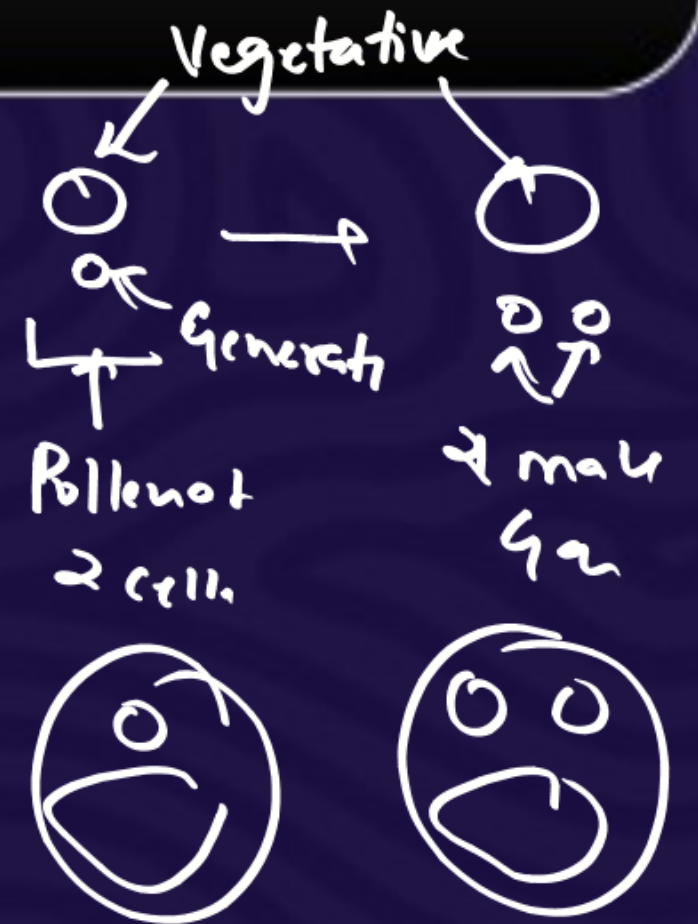
What is microsporogenesis? Explain its events.

Process of formation of male gamete  
in plants (pollen form)

Sporogenous  
Tissue  
(In Anther)

Cell  
Selected

microspore  
mother  
cell



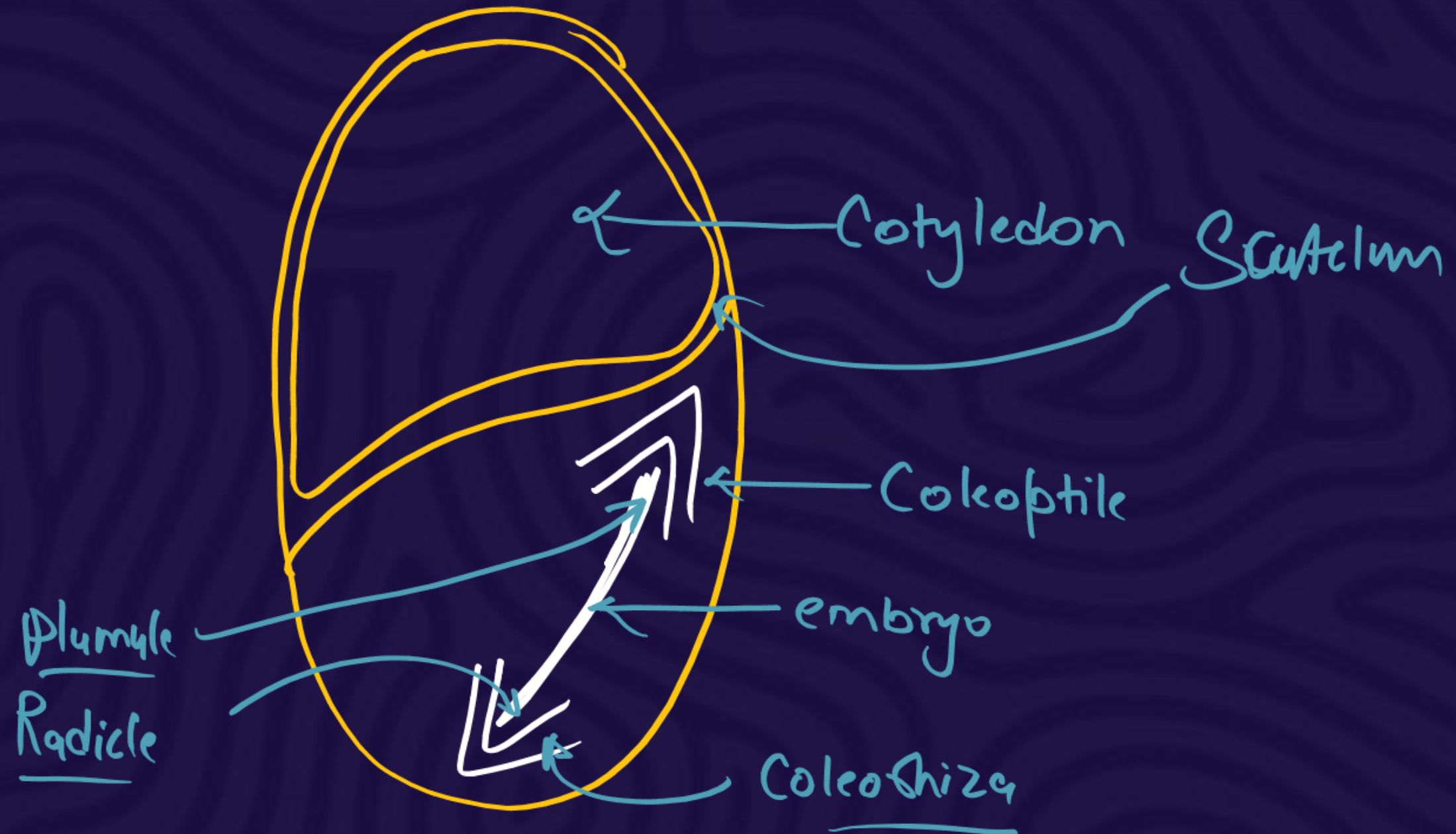


Seeds of angiosperms are

- ✓ 1. Covered by fruitwall
2. Naked seeds
3. Without seed coats
- ✗ 4. Ovules are present on ovuliferous scale

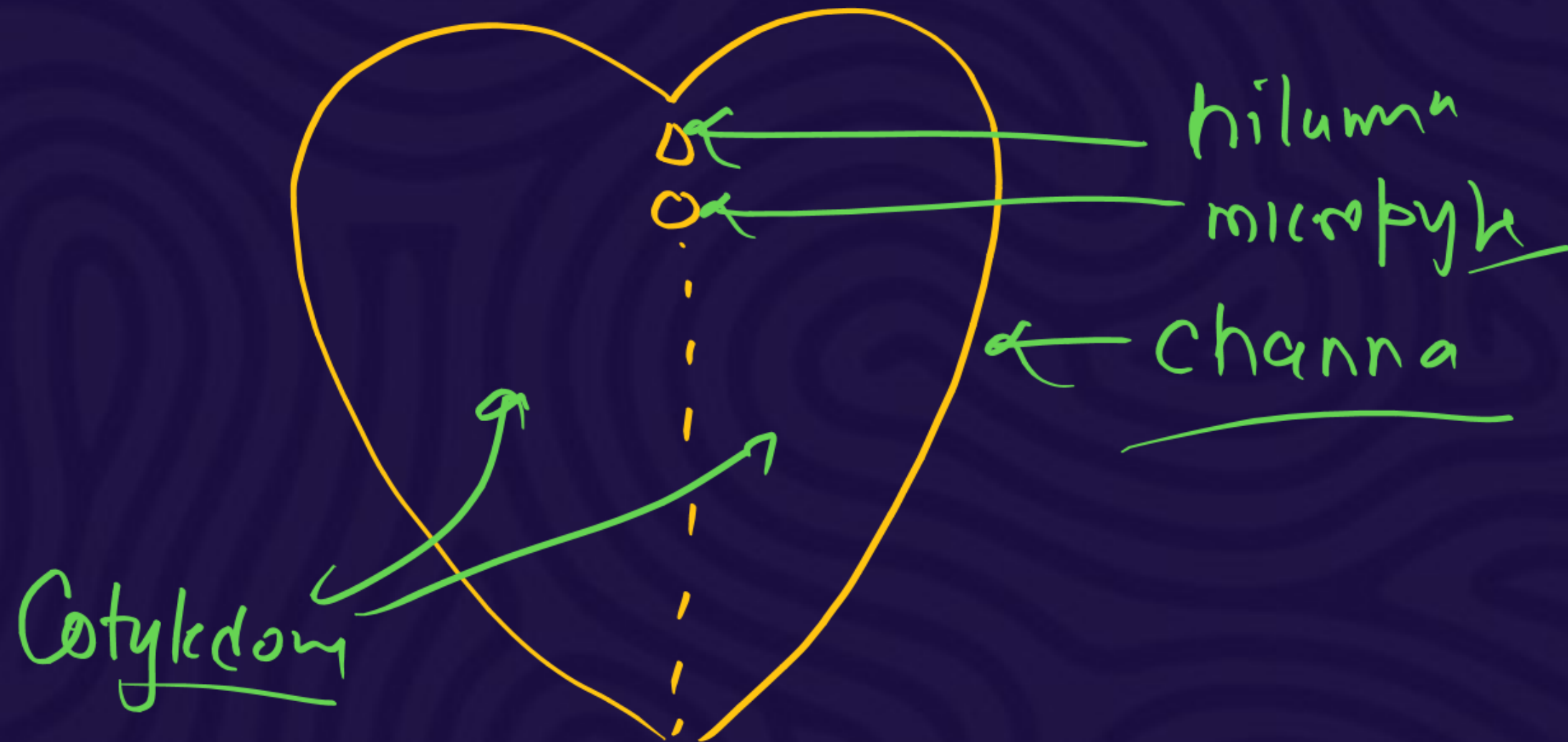
Covered Seed → with fruit wall

Draw diagram of monocot seed and label coleoptile and coleorhiza .





With the help of labelled diagram explain the structure of dicot seed.

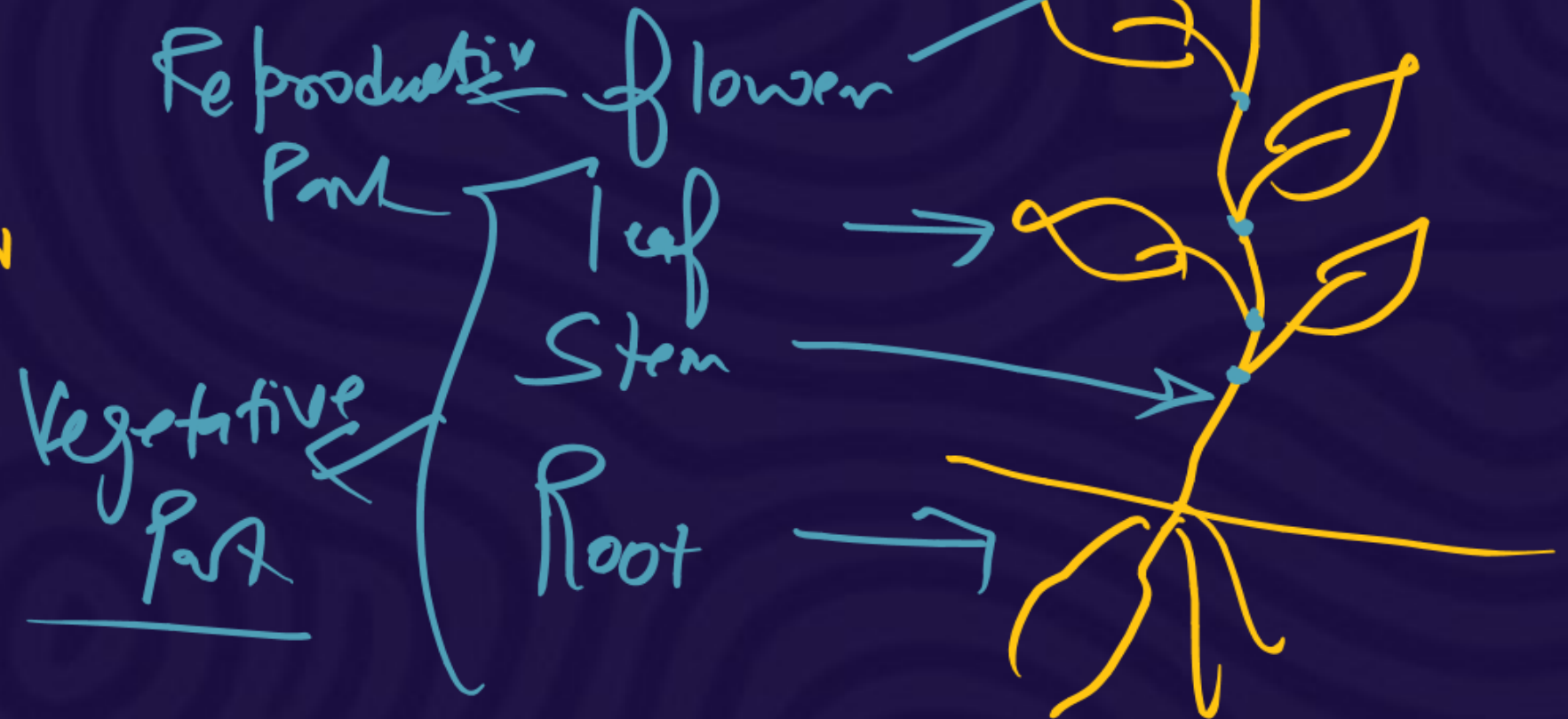


- Define vegetative propagation.
- With the help of one example explain the artificial method of vegetative reproduction adopted for propagating flowering plants.

A → Reproduction by using vegetative part of plant.

Ex! - Rose - Cutting

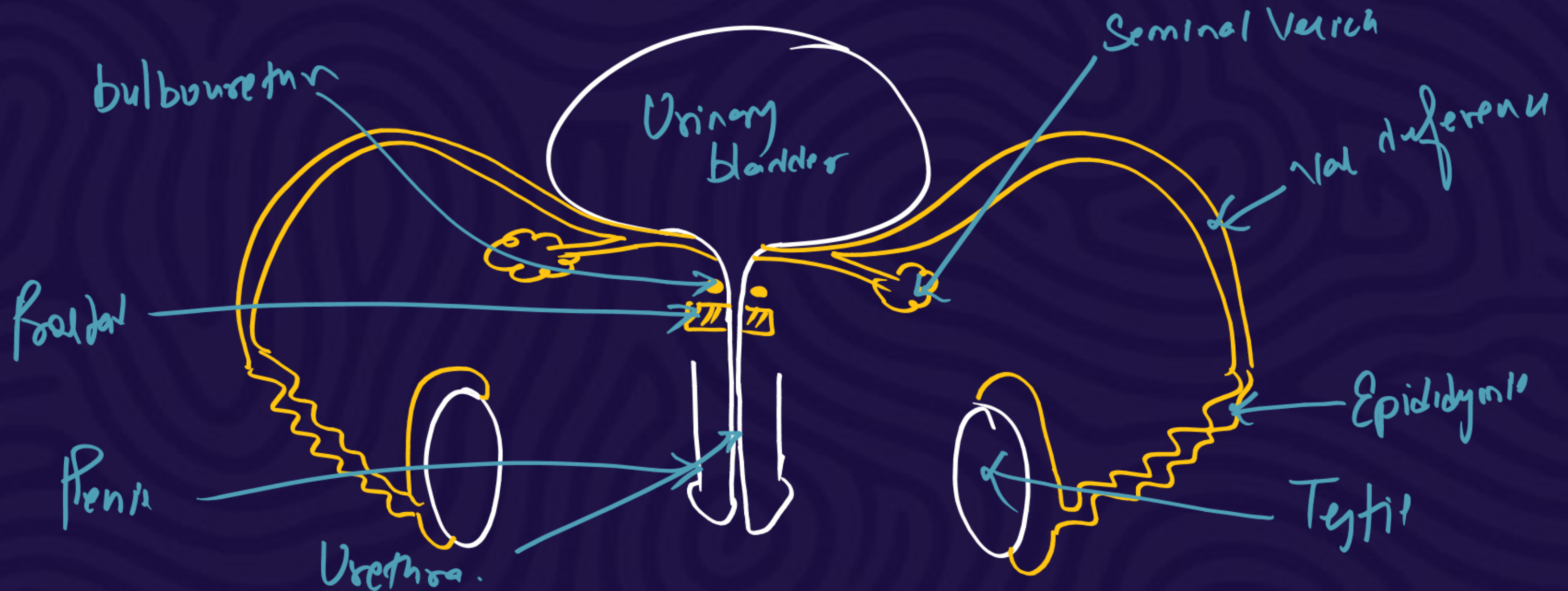
Stem cut → node - underground





## SUPER 30 BIOLOGY

Draw a neat and labelled diagram of the male reproductive system in humans.



The male hormone testosterone is produced by :

1. Epididymis
2. Prostate gland → alkaline fluid
3. Cowper's gland → lubrication
- ✓ 4. Leydig cells →



Write answers of following:

Human testis are a Gonads, present outside the abdomen in a pouch called Scrotum. Each testis is encased in a capsule of white fibrous tissue called albugenia. Each testis has several highly coiled tubules called Seminiferous tubule.

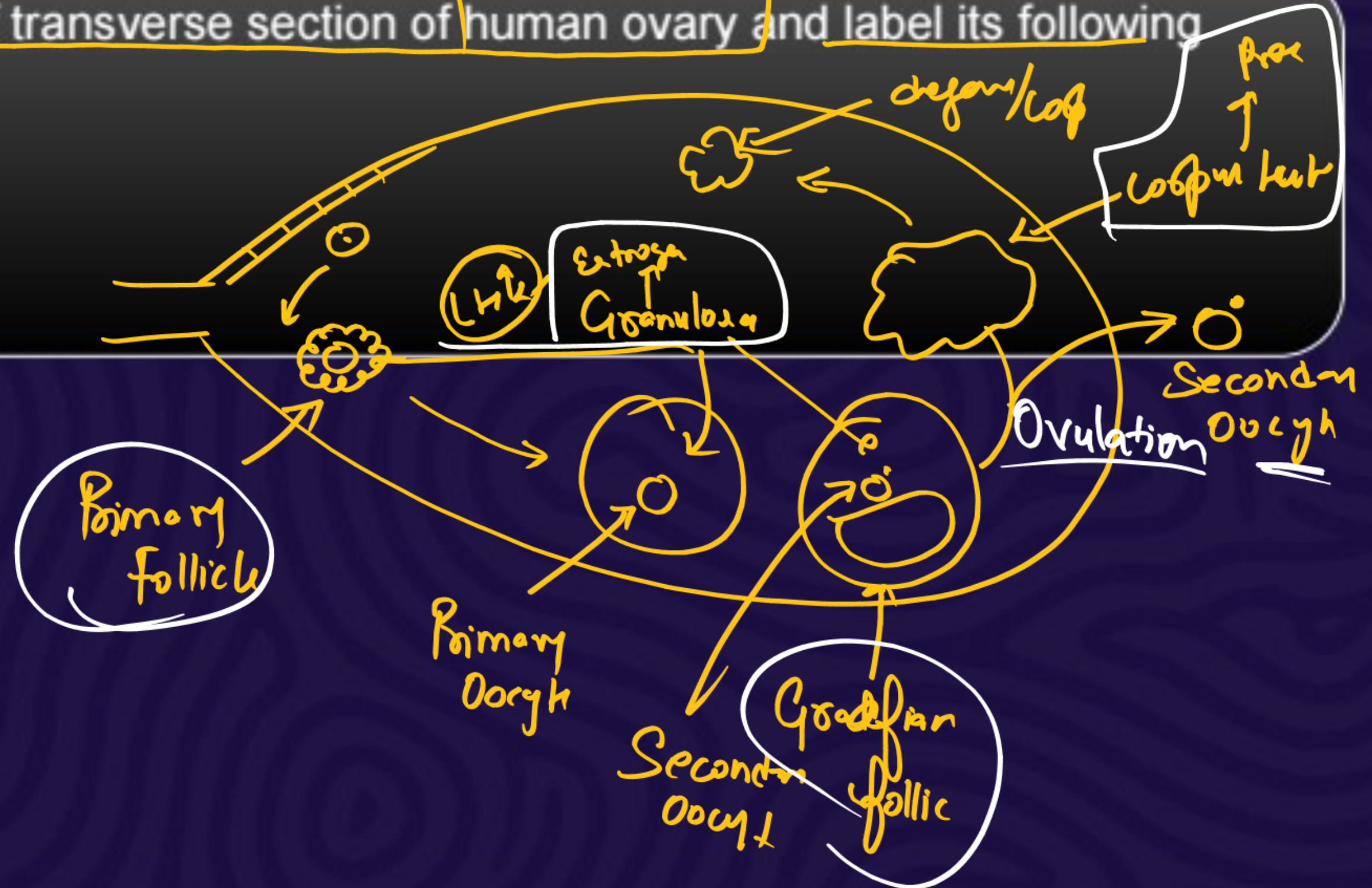
→ "Primary Sex organ"

↓  
Site of Spermatogenesis



Draw a neat diagram of transverse section of human ovary and label its following parts:

1. Primary follicle
2. Graafian follicle
3. Corpus luteum
4. Released ovum





In human female ovulation takes place

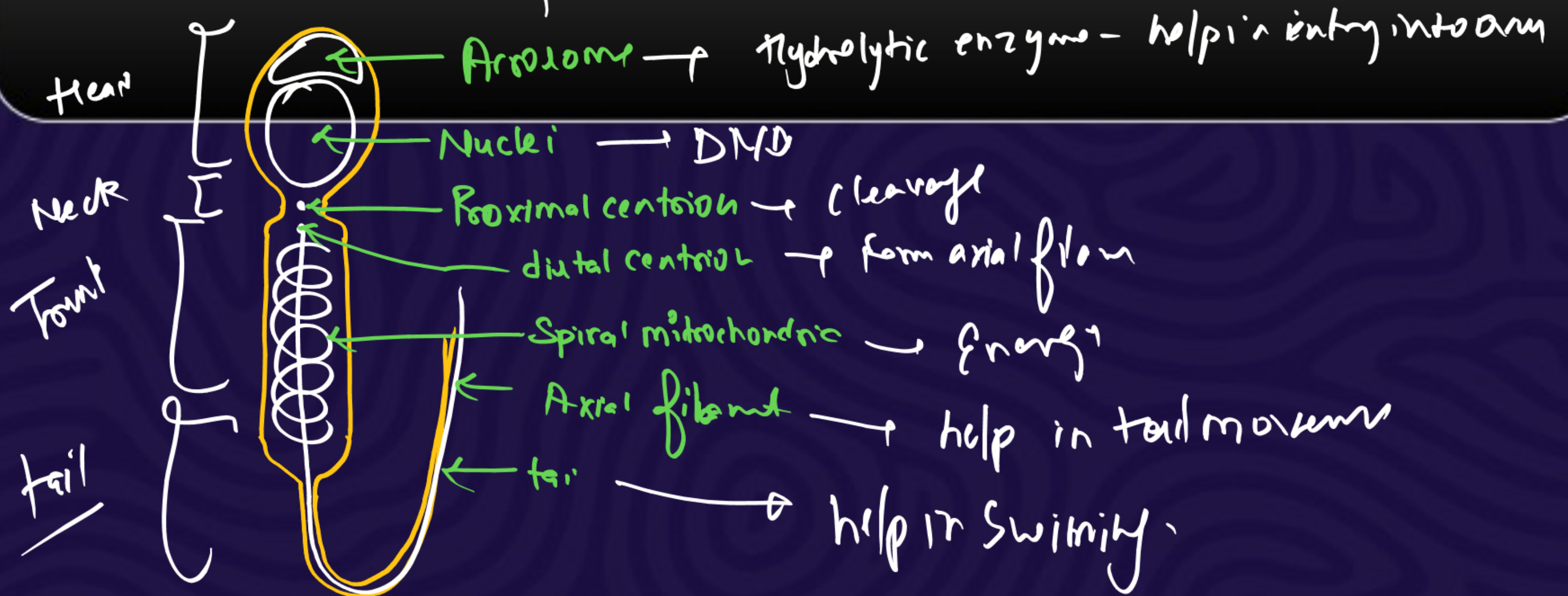
- ✓ 1. Between 13-14 days after onset of menstruation
2. First day of menstruation
3. 25th -28th day of menstrual cycle
4. Last day of menstruation

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Draw a neat diagram of human sperm and label any three parts.





Fill in the blanks with suitable words (attempt any two from A to D) :

The secretion of milk from the mammary glands is called A. The first secretion that comes from the mammary glands of the mother is called B. The synthesis of milk from the mammary glands is stimulated by the hormone C which is secreted by the anterior lobe of the pituitary gland. Another hormone D is secreted by the posterior lobe of the pituitary gland, which stimulates the release of milk from the mammary glands.

A → lactation ★  
 B → Colostrum  
 C → Prolactin  
 D → Oxytocin

## SUPER 30 BIOLOGY

With regard to human reproductive system write answers of following:

1. In human female union of sperms and ova takes place in follicular tube.
2. Attachment of blastocyst in uterine wall is called Implantation.
3. The fluid present around embryo is Amniotic fluid.
4. In mother's womb placenta supplies  $O_2$  and nutrients to growing embryo.

Write the name of the hormone secreted by the human placenta.

- HCG → maintain Pregnancy.
- Human Prolactin — milk secretion
- Estrogen → female secondary ch.
- Progesterone → Maintain Preg.
- Relaxin → help in uterine contraction during Parture haz



## SUPER 30 BIOLOGY

State the function of each

1. Oxytocin → Release of milk / Uterine contraction (parturition)
2. Progesterone → Maintain Endometrium ∴ Pregnancy.
3. Estrogen → female Secondary Sexual character
4. HCG → maintain corpus luteum → Produce Progesterone ∴ maintain Preg
5. FSH → start development of follicle.
6. LH → Ovulation
7. Prolactin → Milk secretion
8. Testosterone → Male Secondary sexual character.

Write answers of following:

1. In certain plants ovary develops into fruits without being fertilised, this is called Parthenocarpy.
2. Due to double fertilisation, zygote and PEN are formed in the ovary.
3. Site of fertilization in human beings is fallopian tube.
4. Sometimes zygote divides into two cells and each of them develops into two embryos, this phenomenon is called Twin.

Name the surgical methods of contraception in human male and female. Also mention the basic procedure involved in two methods



Match the statement given in Column-I with the right option in Column-II :

Column-I	Column-II
(i) Copper-T (ii) Condoms	(a) Interfere with the ovulation process and prevent fertilization (b) Prevent sperms from meeting the ovulated egg (c) Implantation is not possible (d) Permanently prevent fertilization

Write any one temporary method and one permanent method of birth control .

Explain the following :

- A. Acrosome
- B. identical twins
- C. Test tube baby



What do you understand by Artificial insemination

OR

What do you understand by Test Tube Baby.

One of the following statements not the correct reason for overpopulation in our country:

1. Wrong social beliefs
2. Illiteracy
3. Observing proper family planning methods
4. Desire for a male child

What is amniocentesis ? how is it performed ? write an advantage and one misuse (disadvantage) of it.



SUPER 30 BIOLOGY

# THANK YOU

KEEP LEARNING KEEP GROWING

Comment :- Class Kaise lagi ?