2025

How Do organisms Reproduce?

Biology

Lecture 09

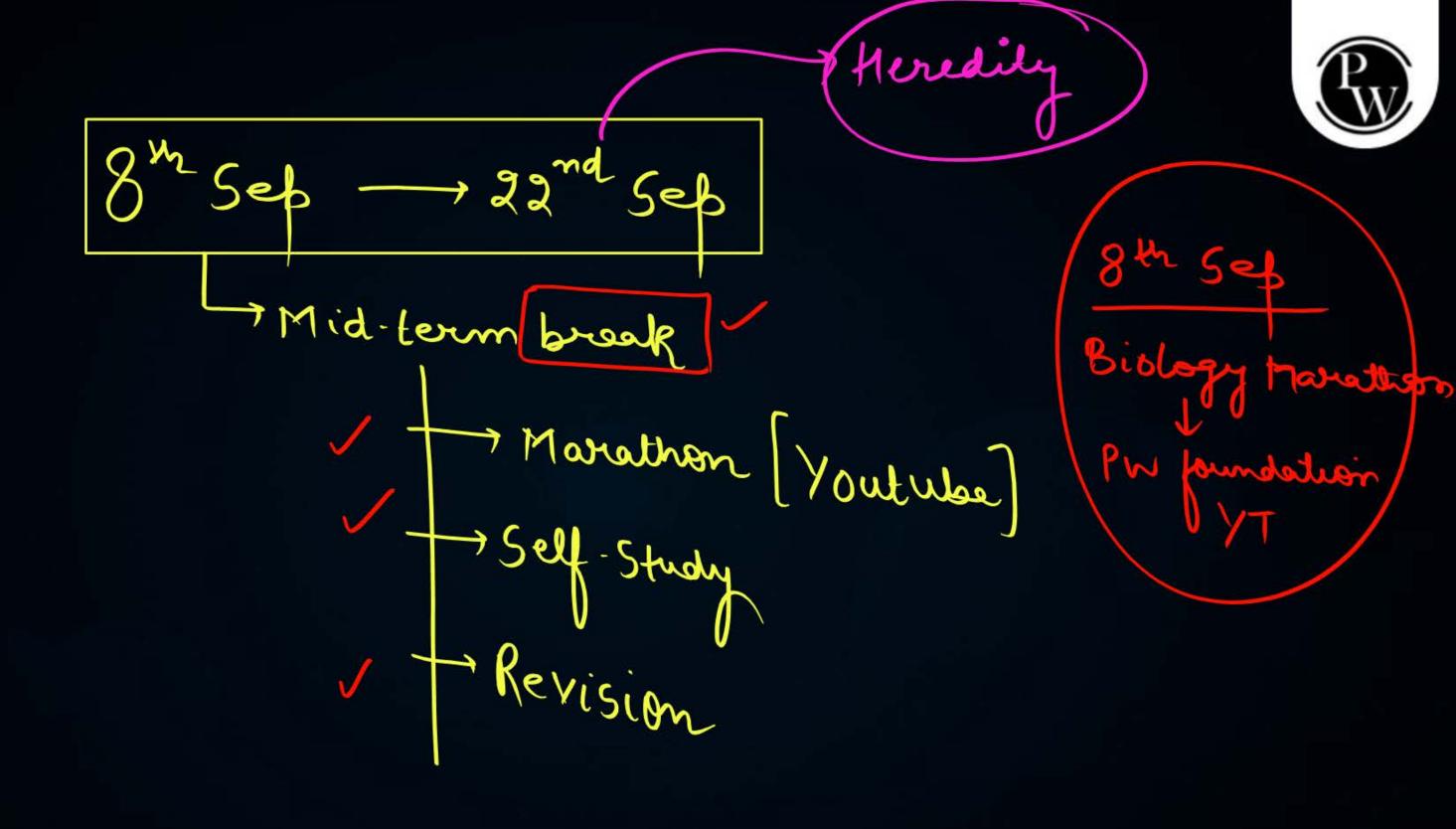
By - SAMRIDHI SHARMA MA'AM



Topics to be covered

- 1 Reproductive health
- 2 Doubt discussion
- 2 MCQ practice and Homework









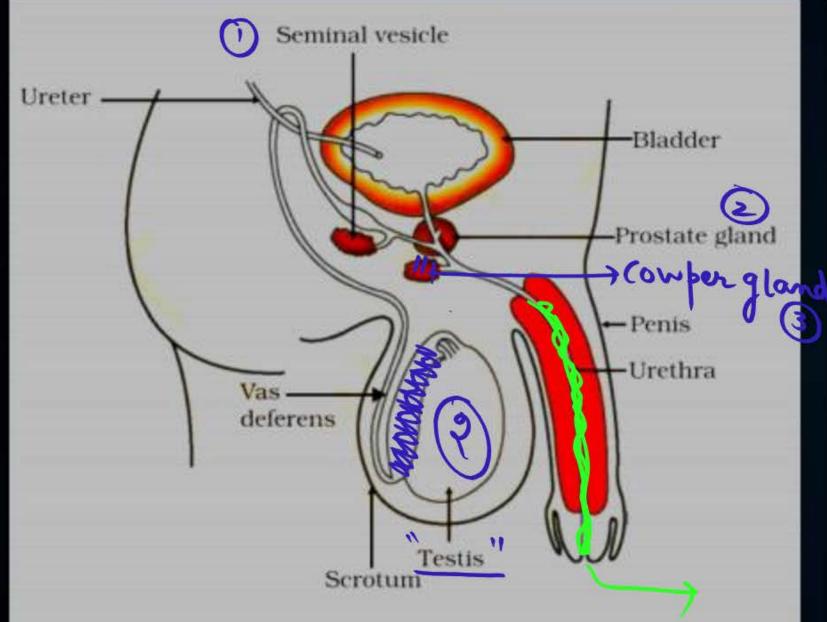


Figure 8.10 Human-male reproductive system

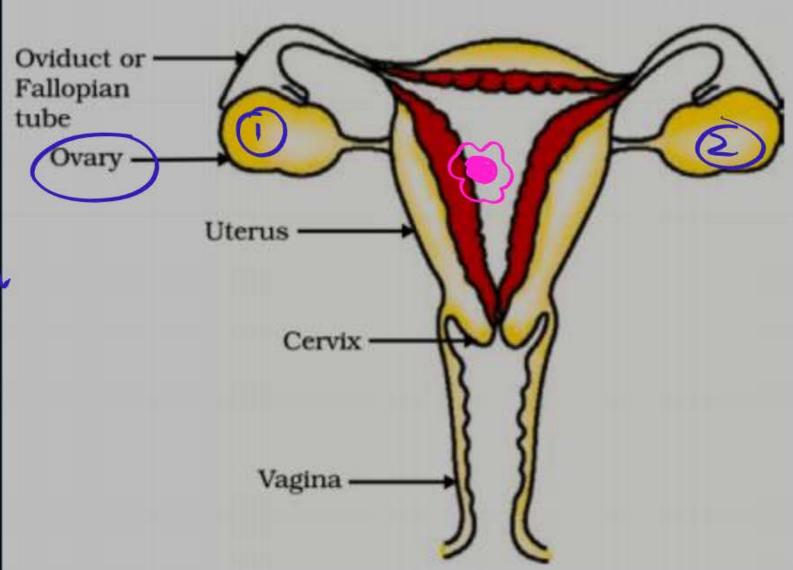
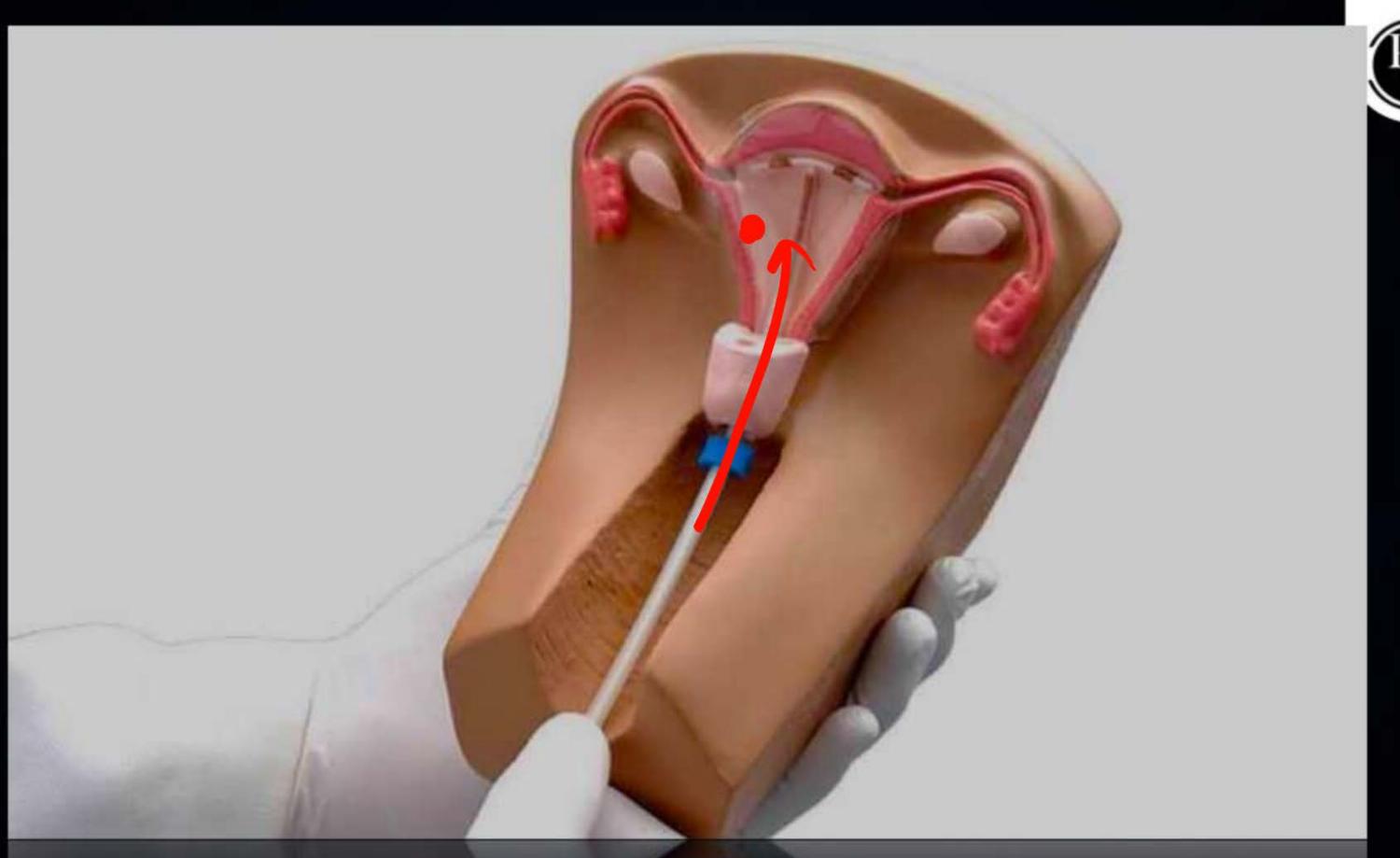


Figure 8.11 Human – female reproductive system

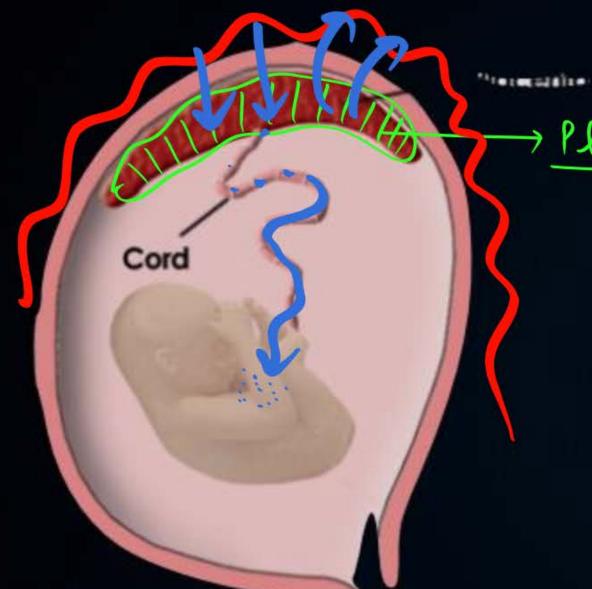


Ovulation Fertilisation 40 weeks [Gestation period 9 months Partuntion









-> Placenta -> (Villi

increex Surface area

Exchange of Substances

Question



Which of the following statement is not related to reproduction in

Amoeba? - Binary Jissian

- A Karyokinesis is followed by cytokinesis
- Cytokinesis is followed by karyokinesis
- C It shows irregular binary fission.
- Two daughter cells are produced

Question



A and B are two reproductive organs/Tissues of females. A is responsible for nourishment of the developing embryo and B is where sperms encounter egg. Identify A and B respectively

- A Cervix & uterus
- B Ovary & oviduct
- Fallopian tube & placenta
- Placenta & oviduct



Role of hormones in human reproduction:



- Testosterone → Males → Sperm broduction
- Estrogen → Females → Menstruel Cycle

 Ovulation [Related to developmenty egg (evi)
- · Oxytocin S Birth harmone
- · Prolactin {Release of milk from mammary gland}



Reproductive Health



[STD's]

Sexually Transmitted Diseases :-

Diseases Which Can Spread from One power to another power during the time of Sexual intercourse are known as STD's

Bacterial STD's

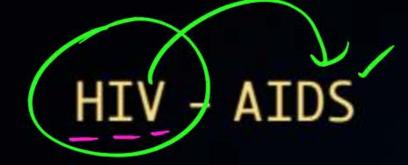
* Syphillis

* Gonorrhea

Viral STD's

* +IIV-AIDS

* Genilal Worts





- . Human Immunodeficiency Viscus
- · Acquired Immuno Dépiciency Syndrome

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AIDS -> Viral Disease

Chronic Disease [lifelong disease]

Virus weaken our Immune System [Kill Our White]

blood (ell)
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Transmit





- 1) Sexually transmit
- (3) By Shaving of injected needles/ Scisson blades

CONTRACEPTION

Methods or techniques adopted to prevent pregnancy as a consequence of sexual intercourse

Why contraceptive methods should be adopted?



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To prevent unwanted pregnancy

To prevent Sexuelly transmitted
diseases
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To maintain family size/get bywo two Children



Types of Contraceptive Method



- 1) Mechanical /Barrier Method
- 2) Chemical Method
- $\Im Iuco$
- (4) Swrgical Method



Mechanical /Barrier Method



- 1. Physical devices like **condoms** (for males & females) and **diaphragms or cervical caps** (for females) are examples of this method.
- 2. These work by preventing the meeting of sperm and ovum.
- Barrier methods helps to prevent pregnancy and Sexually Transmitted Diseases by preventing the intermixing of body fluids.



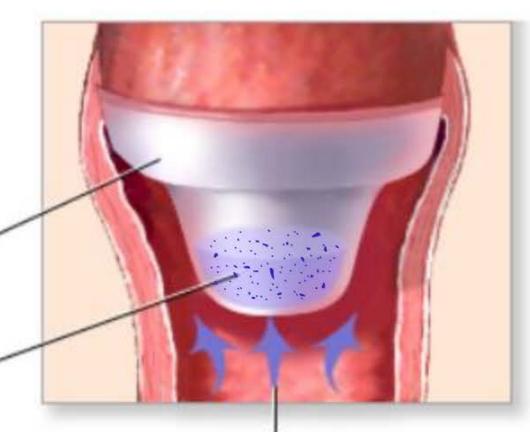


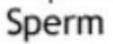




Cervical cap blocks sperm from entering cervix

Spermicide -







Spermicide inside diaphragm kills sperm



Sperm cell in presence of spermicides*





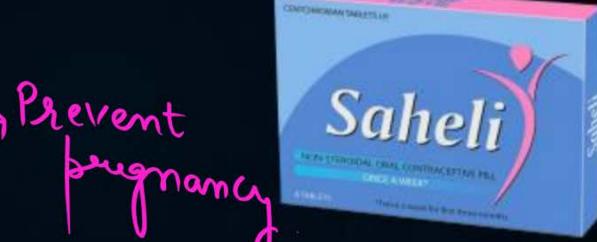


Chemical Method

Chemicals



- 1. These include oral pills and vaginal pills
- 2. These pills contain certain hormones which works in the following ways :
- prevent the production of ovum
- kill sperm cells
- prevent implantation
- 3. These methods have certain side-effects
- 4. It cannot prevent transmission of STDs



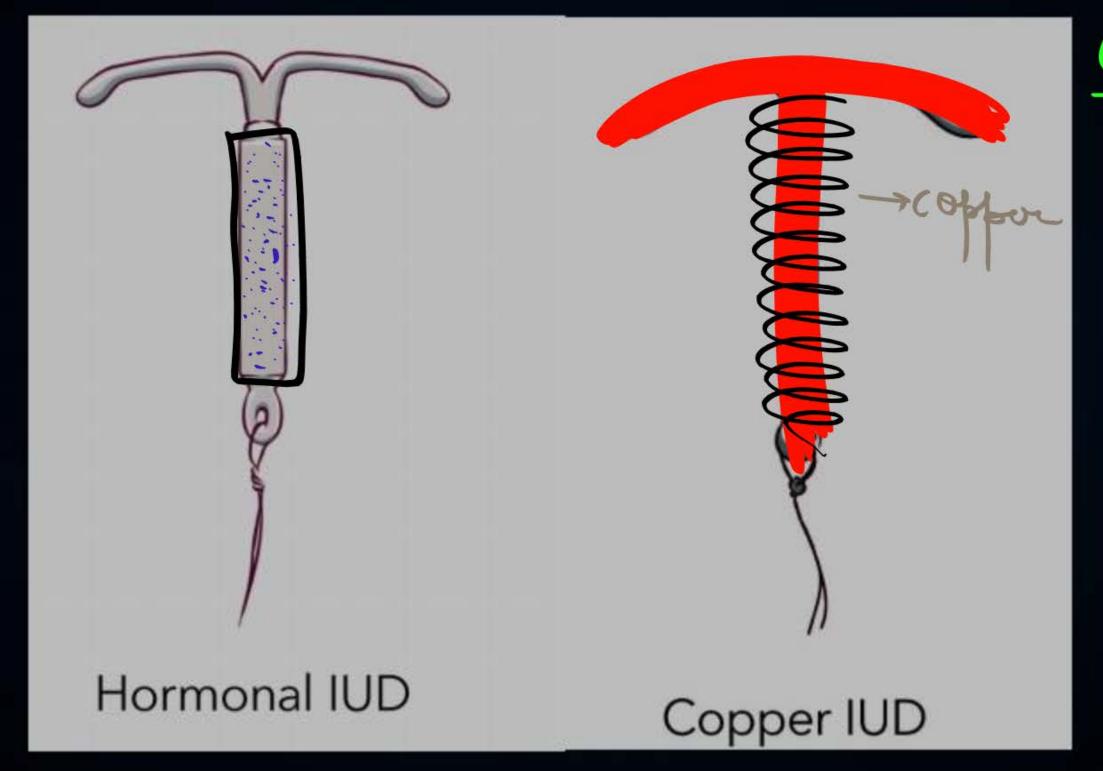




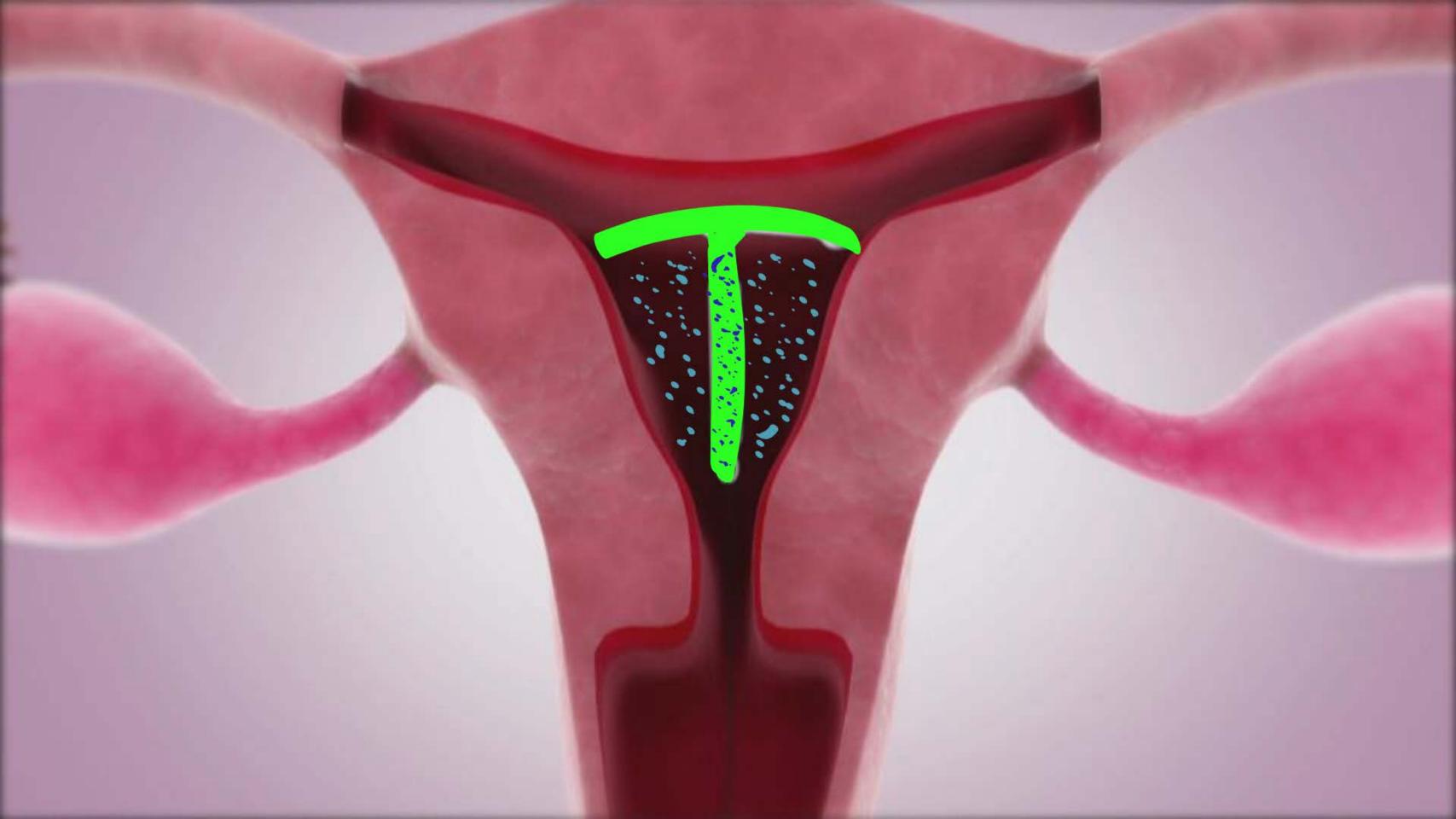


Intra uterine contraceptive Devices (IUCDs)





Cu-T

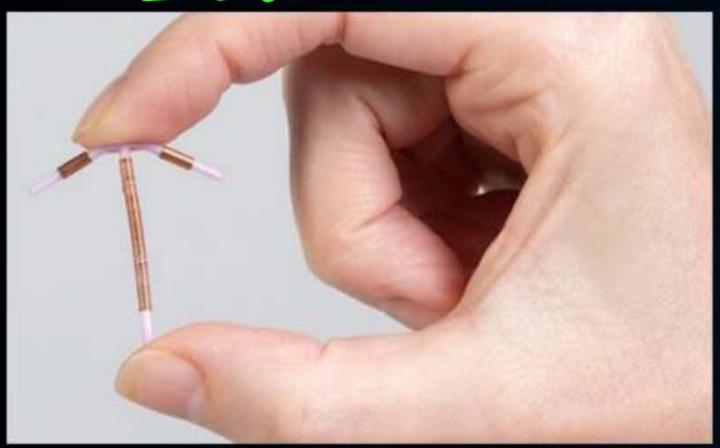




Intra uterine contraceptive Devices (IUCDs)







- Copper IUD Releases small amounts of copper in the uterus which works as follows:
- Prevents sperms from reaching the fallopian tube
- Prevents implantation
- Spermicidal

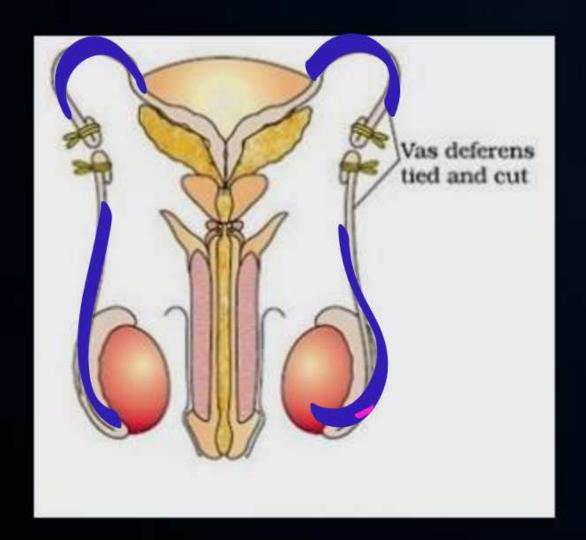
 Hormonal IUD – Releases hormones in the body which prevents the formulation of eggs.

Surgical Methods



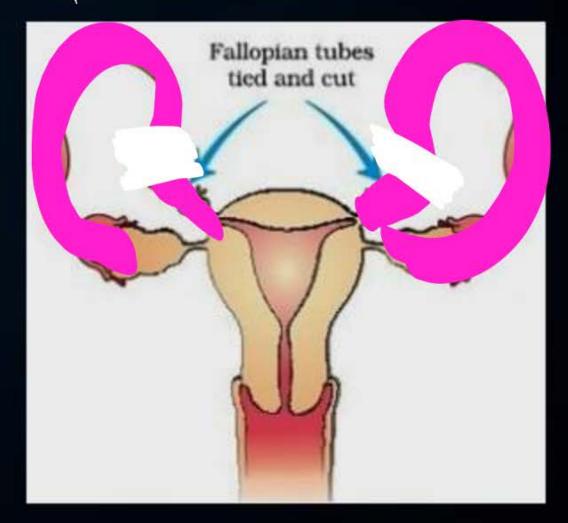
Valsectomy [Males]

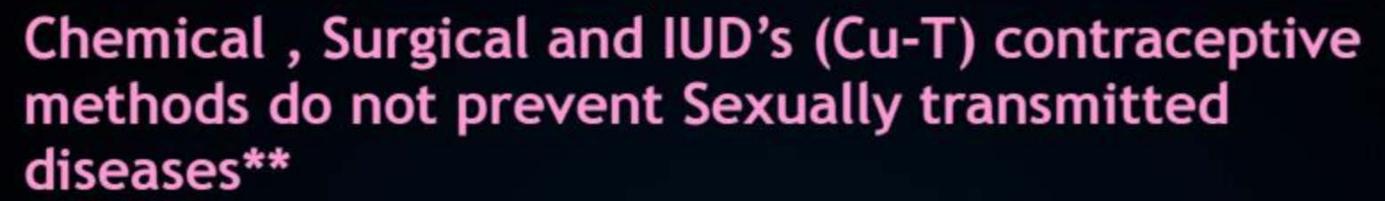
Mas deferens is cut & fied



Tubectomy [Females]

Fallopian tube/Oviduct is Cut \$ tied











Population



Sex Ratio
[Male: Female]

Size of a population depends upon:

Birth Rate

Death Rate



Female Foeticide



Female foeticide is the process of finding out the sex of the foetus and undergoing abortion if it is a girl.



SAVE THE GIRL CHILD



Medical Termination of Pregnancy (MTP)



MTP Act 1971

Ly worth 20 Weeks aboution



Common Doubts



- · IVF In Vitro-furtilisation Test luse below
- Concept of twins
- What happens to sperms cells after vasectomy
 - Does me menstruation occurs during use Cu-T



Which of the following is cut and tied in vasectomy?

Males

- A Testis
- B Vas deferens
- c Fallopian tube
- D Uterus



Copper T is inserted in

- A Oviduct
- B Ovary
- c Fallopian tube



Question



Condom is a type of _____ contraceptive method

- A Chemical X
- Barrier
- c IUD X
- D Surgical X



Which of the following will help to prevent both STD and pregnancy?

- Condoms
- B Cu T
- c IUD
- D Vasectomy

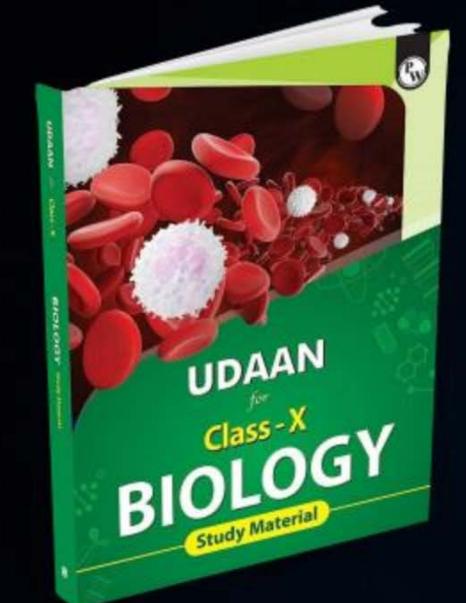


Joke/Meme of the Day





> Sperm Cell



Homework



FROM PW MODULE (udaan - CLASS 10)

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