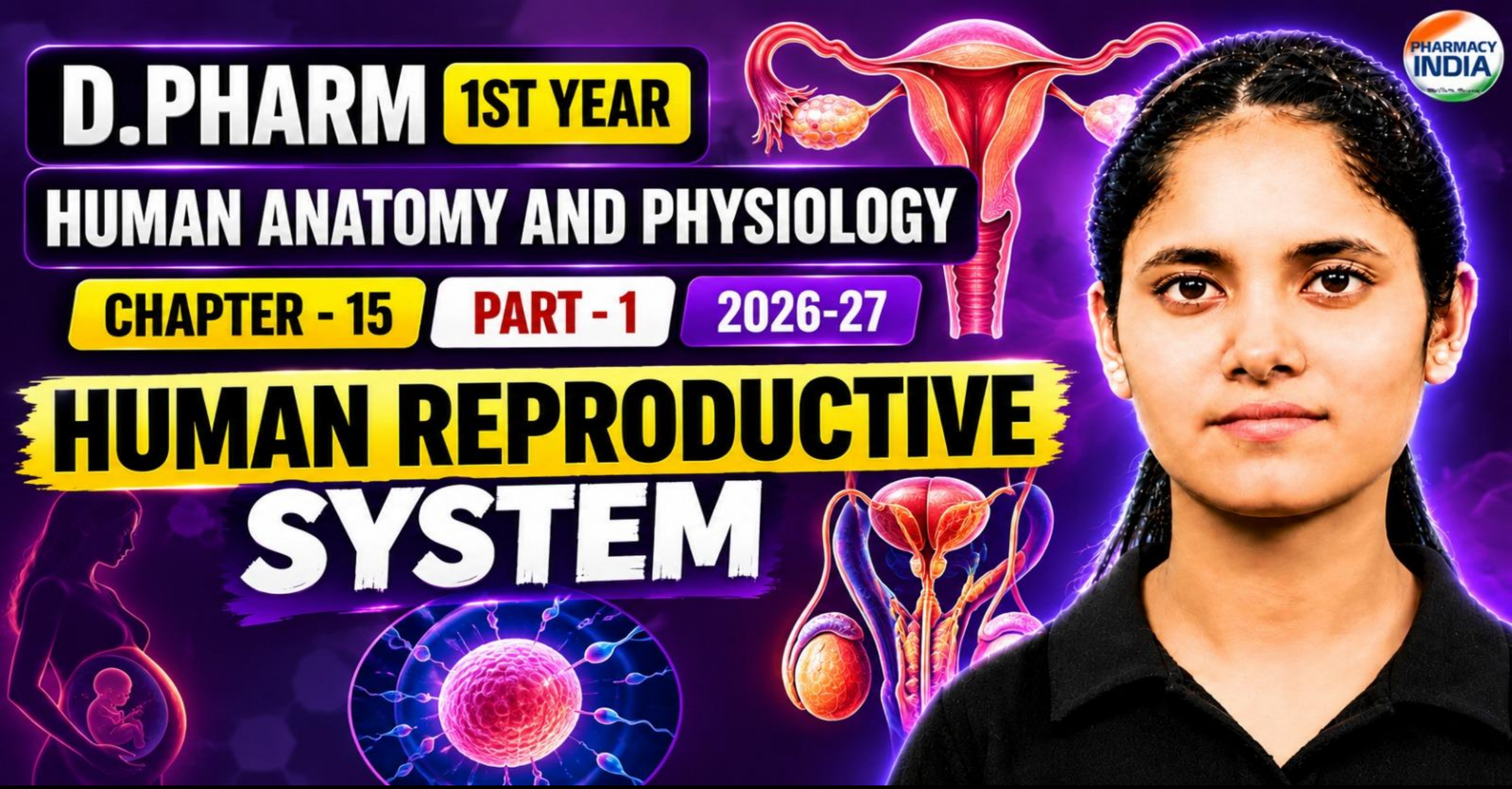
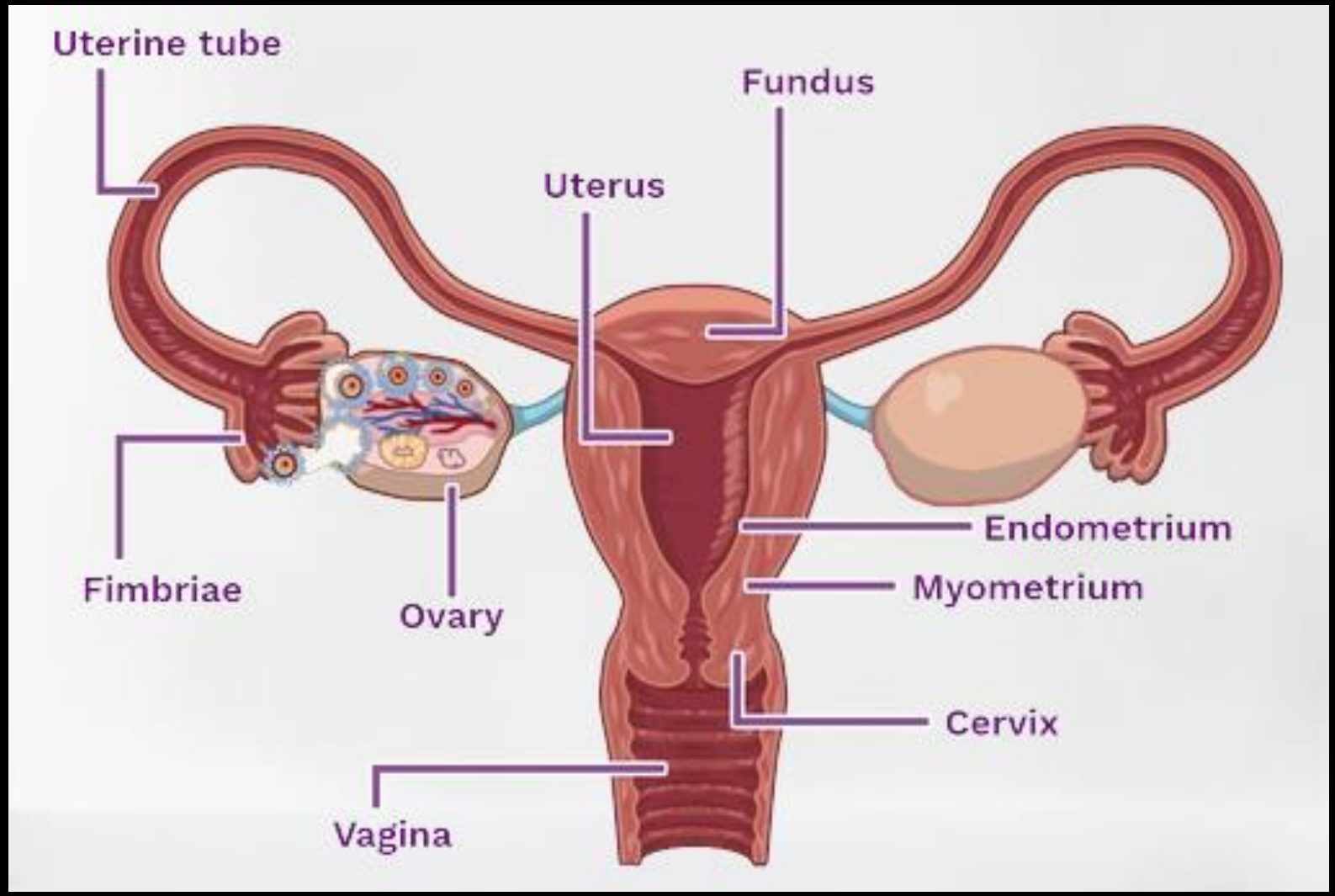

D.PHARM
1ST YEAR
HUMAN ANATOMY AND PHYSIOLOGY
CHAPTER - 15
PART - 1
2026-27
HUMAN REPRODUCTIVE SYSTEM
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Reproductive System

- All human beings undergo a sexual mode of reproduction.
- In this process, two parents are involved in producing a new individual.
- Offspring are produced by the **fusion of gametes** (sex cells) from each parent.
- Hence, the newly formed individual will be **different** from parents, both **genetically and physically**.
- In human beings, both males and females have different reproductive systems; hence, they are known to exhibit **sexual dimorphism.**

Female Reproductive System

- The female reproductive system consists of the **primary** as well as **accessory sex organs.**
- The primary sex organs in females are a pair of **ovaries**, which produce **ova or egg**.
- They also secrete female sex hormones like **progesterone** and **estrogen.**
- The other accessory sex organs include the **uterus, fallopian tubes, cervix and vagina.**
- The external genitalia comprises the **labia minora, labia majora and clitoris.**


Uterine tube
Fundus
Uterus
Endometrium
Myometrium
Fimbriae
Ovary
Cervix
Vagina

Ovaries

- Ovaries act as the main female sex organs that produce the **female gamete and various hormones.**
- These organs are situated one on both the side of the lower abdomen.
- Each ovary measures about **2 to 4 cm** in length which is then connected to the uterus and pelvic wall through ligaments.
- The ovary is surrounded by a thin covering of **epithelium**, encloses the ovarian stroma and is divided into two zones

❑**Outer cortex**

❑**Inner medulla.**

- The cortex consists of various **ovarian follicles** in different stages of development.
- The **ovarian follicle is called the basic unit of the female reproductive system.**
- Each oviduct is divided into three anatomical regions- **ampulla, isthmus, and infundibulum**.

Uterus

- A uterus is also called the **womb.**
- It is a muscular, **inverted pear-shaped** organ of the female reproductive system.
- The walls of the uterus consist of three layers-

❑**The inner glandular layer,**

❑**The middle thick layer,**

❑**The outer thin layer.**

- These three layers are maintained by ligaments which are attached to the pelvic wall.
- The **cervical canal** along with the **vagina** creates the **birth canal**.

Vagina

- The vagina is a muscular and elastic tube that connects the **cervix to the external body**.
- It functions as the **receptacle** for the penis in sexual intercourse and delivers sperm to the fallopian tubes and uterus.
- It also acts as a **birth canal** by expanding to allow delivery of the fetus during childbirth.
- The external genitalia comprises the **labia minora, labia majora and clitoris.**

❑The Greater Vestibular Glands:

- Just **superior** and **lateral** to the vaginal opening are the two mucus-producing greater vestibular (Bartholin) glands.
- Like the Cowper glands in males, these glands provide **lubrication** during intercourse.

❑The Vulva and the Perineum :

- The external parts of the female reproductive system form the **vulva**, which includes two pairs of labia; the clitoris, which is a small organ of great sensitivity, and related structures.
- The perineum is the **diamond-shaped** area medial to the thighs of both males and females.
- It contains the external genitals and anus.

Fallopian Tubes

- A pair of fallopian tubes or **Oviduct** connect the ovaries to the uterus.
- The main function of the fallopian tube is to collect the mature ovum from ovaries and provide passage to the fertilized ovum to reach the uterus for implantation.
- The parts of Fallopian tube are:

❑Infundibulum –

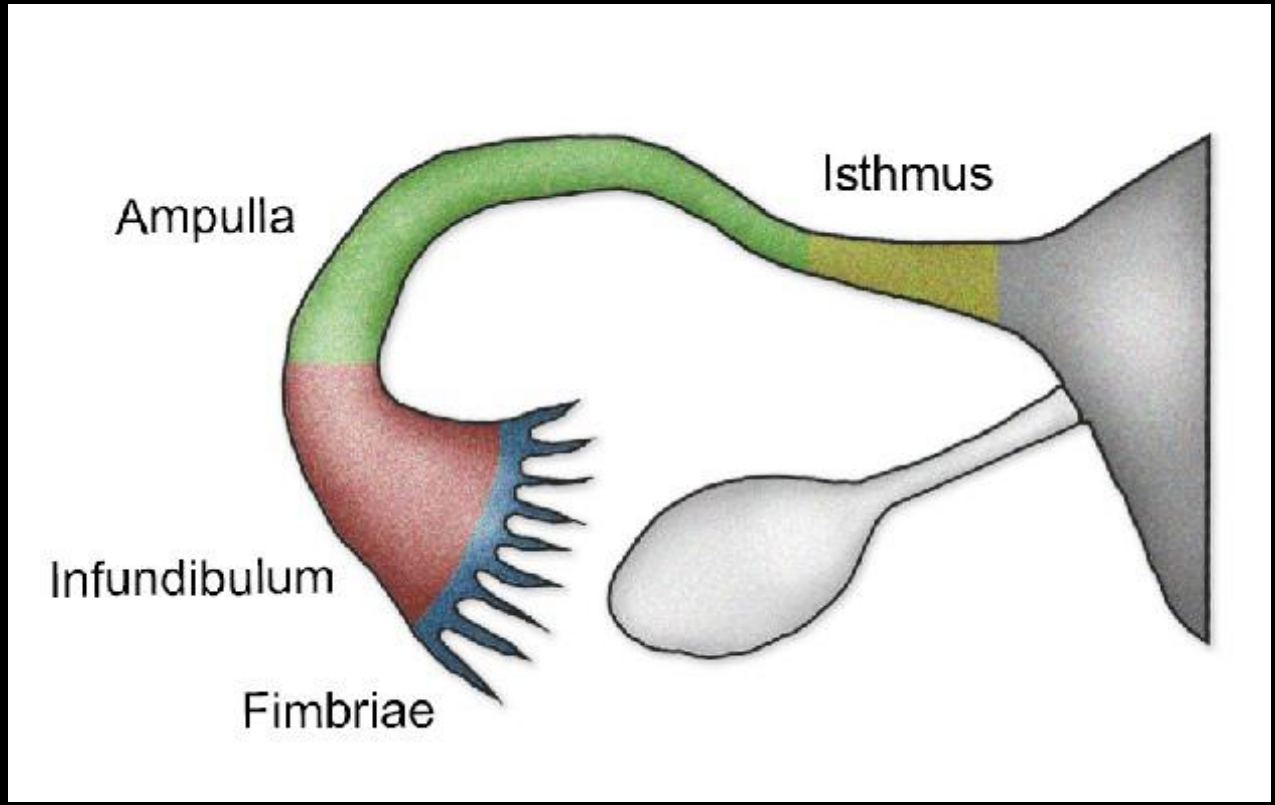
- Nearest part to the ovaries, the Infundibulum is the funnel-like part of the tube has finger like projections called **fimbriae** which extend towards the ovary.

❑Ampulla –

- Main passageway in the uterine tube and is seen between the isthmus and infundibulum.
- It is the **site of fertilization.**

❑Isthmus –

- Small passageway connecting the ampulla to the part of the fallopian tube which is nearest to the uterus – the **intramural part**.

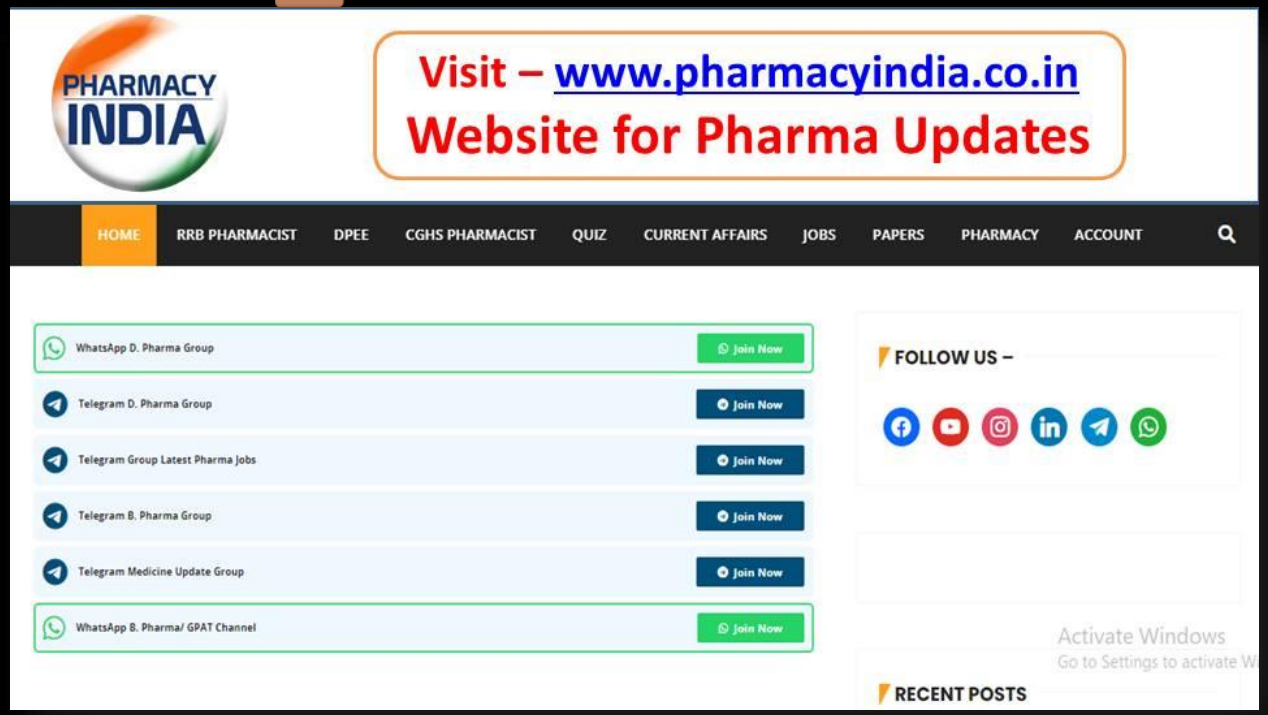

Ampulla
Isthmus
Infundibulum
Fimbriae

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