

# UPDAAN



## 2025

### How Do organisms Reproduce ?

Biology

Lecture 08

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# Topics to be covered

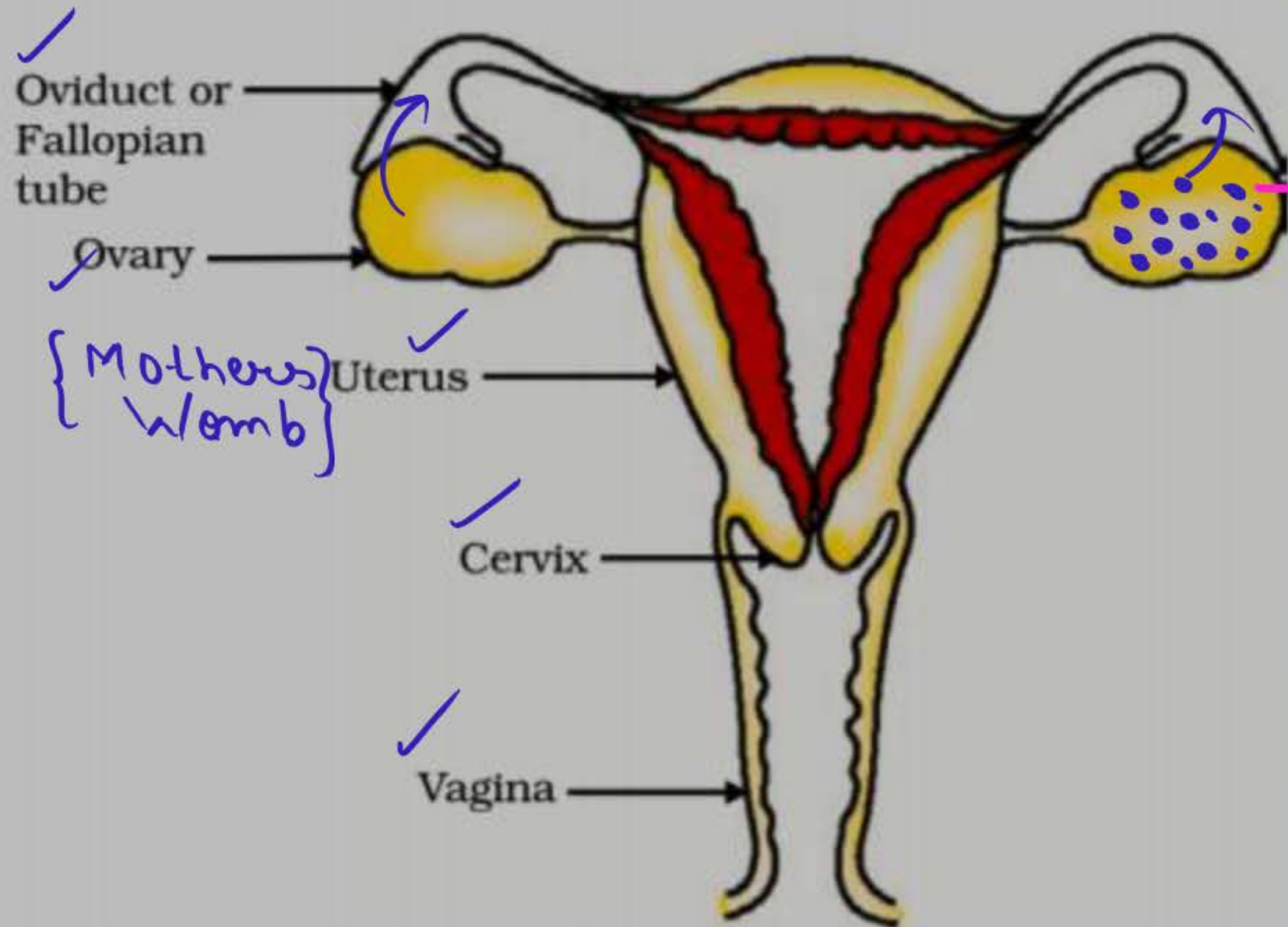
- 1 Female reproductive system ✓  
Sexual Reproduction in Human Beings (Part - 02)
- 2 Menstruation
- 2 MCQ practice and Homework





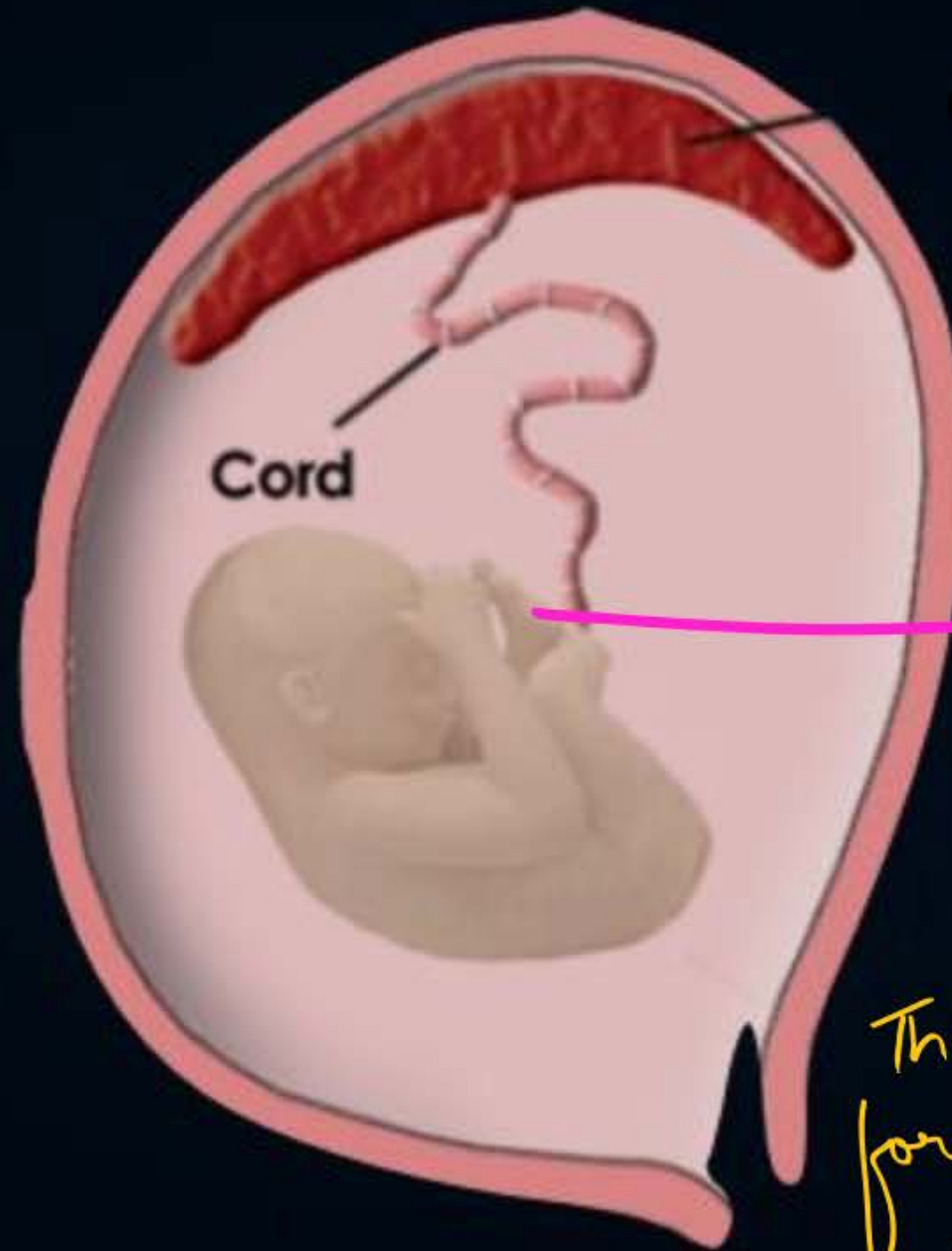
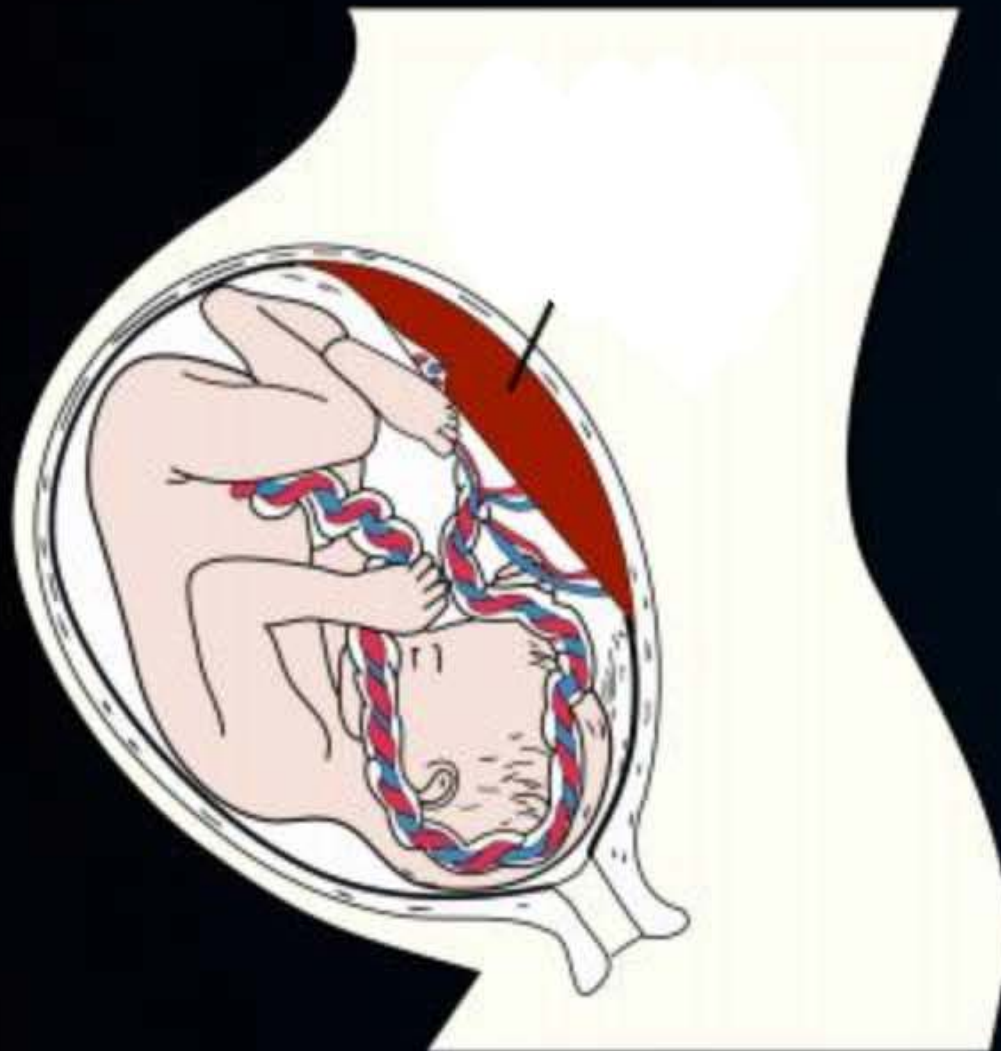


# Female reproductive system



→ Ovary releases one mature egg cell / ovum every month

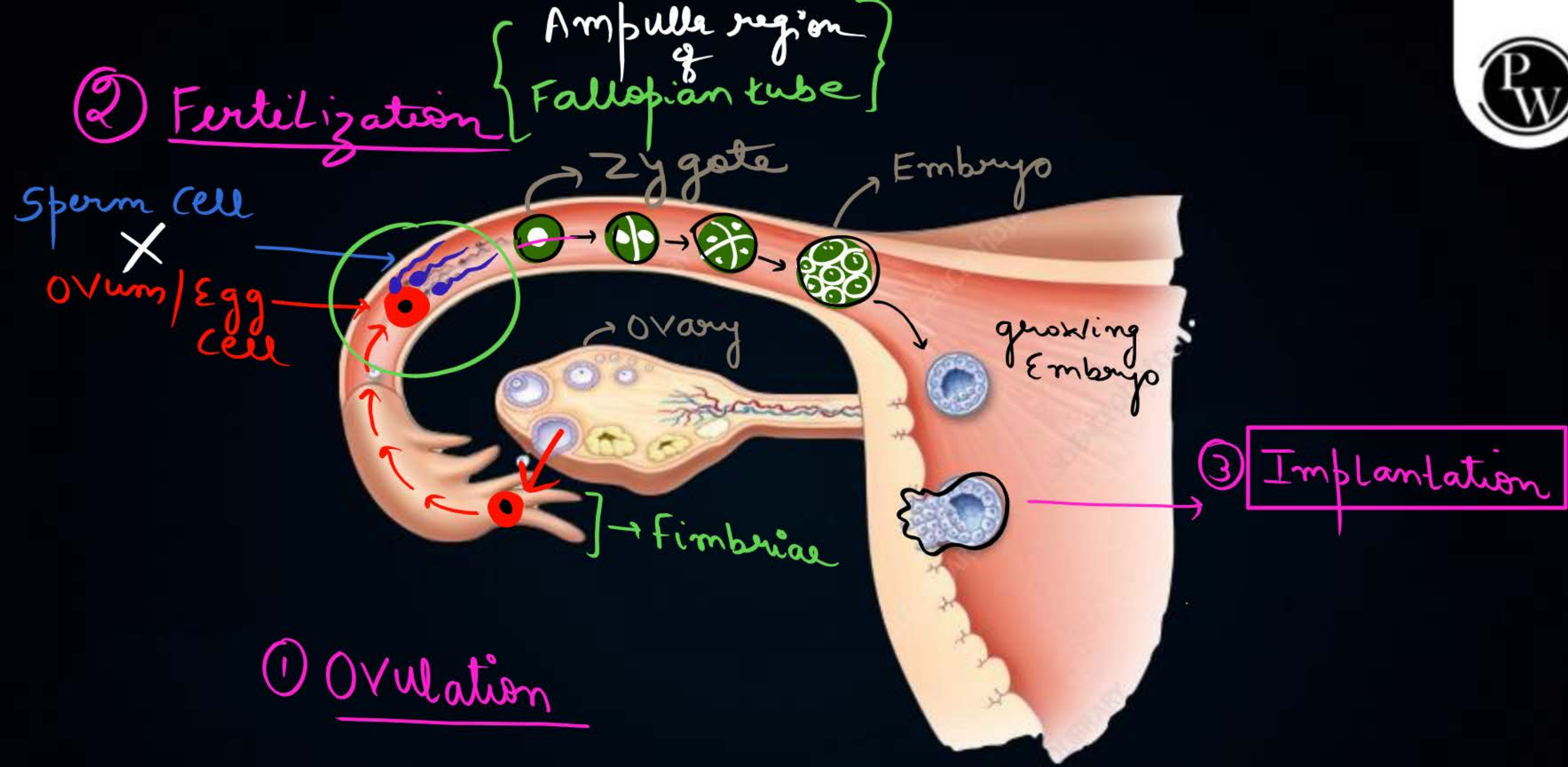
Figure 8.11 Human -female reproductive system



Female foetus

A pair of ovaries are formed  
 ↓  
 Thousands of egg cells are formed & then get frozen at immature stage





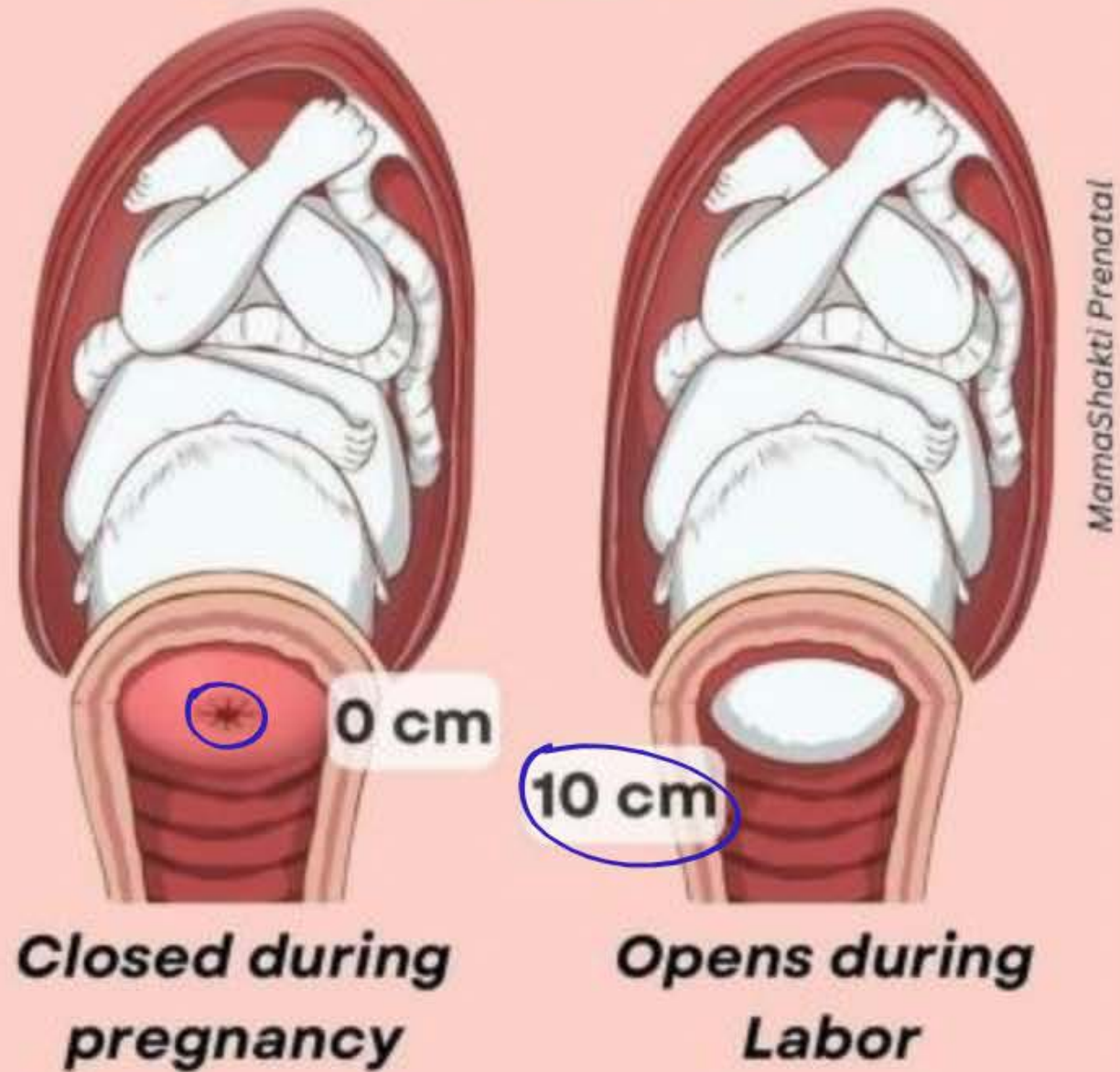




# Terminologies related to reproduction in human beings

- ① **Ovulation** {Release of mature egg cell from ovary into the fallopian tube}
- ② **Fertilization** {Fusion of male & female gamete}
- ③ **Implantation** {Attachment of growing embryo with uterus wall}
- Pregnancy** {Gestation period of 9 months {40 weeks} [Growth & development]}
- ④ **Parturition / Delivery of baby**

# The role of your **Cervix**







# Female reproductive system



Structure	Function
Ovaries	<ul style="list-style-type: none"><li>• Produce the hormones <u>estrogen</u> and <u>progesterone</u></li><li>• Site of ovum (egg cell) development and ovulation</li></ul>
Fallopian tubes (oviducts)	<ul style="list-style-type: none"><li>• Carry the ovum from the ovary to the uterus</li><li>• Site of <u>fertilization</u></li></ul>
Uterus (womb)	<ul style="list-style-type: none"><li>• ✓ Pear-shaped organ in which the embryo and foetus develop</li><li>• Involved in <u>menstruation</u></li></ul>







# Female reproductive system



Structure	Function
Cervix	<ul style="list-style-type: none"><li>• Separates the <u>vagina</u> from the <u>uterus</u></li><li>• Holds the <u>fetus</u> in place during pregnancy</li><li>• <u>Dilates</u> during birth to allow the fetus to leave the uterus</li></ul>
Vagina	<ul style="list-style-type: none"><li>• Provides a <u>passageway</u> for <u>sperm</u> and <u>menstrual</u> flow</li><li>• Functions as the "birth canal"</li></ul>

Fertilisation and Implantation take place respectively in ?

- ☐ A Uterus and fallopian tube
- ☐ B Ovary and uterus
- ☒ C Fallopian tube and uterus
- ☐ D Vas deference and urethra

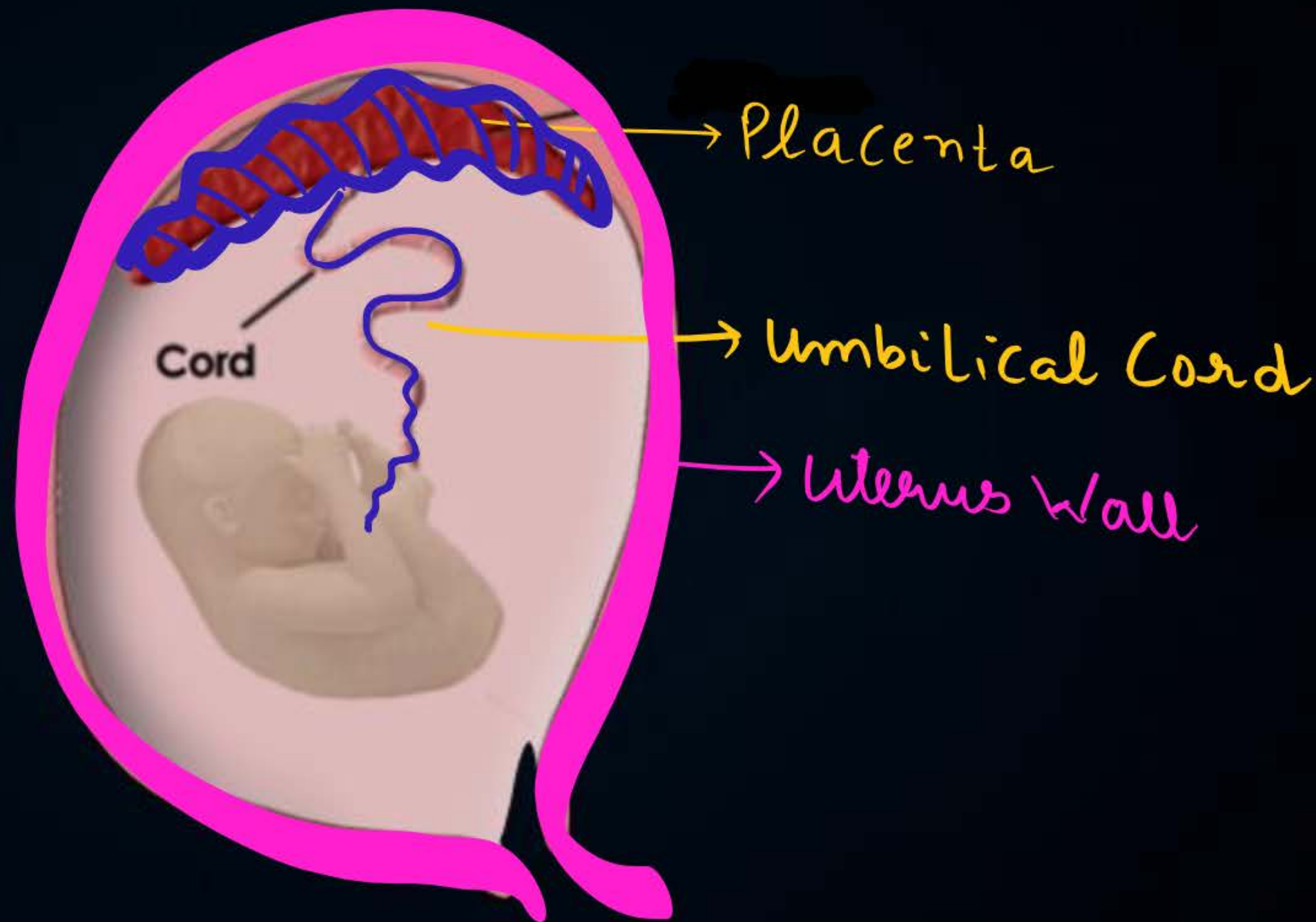
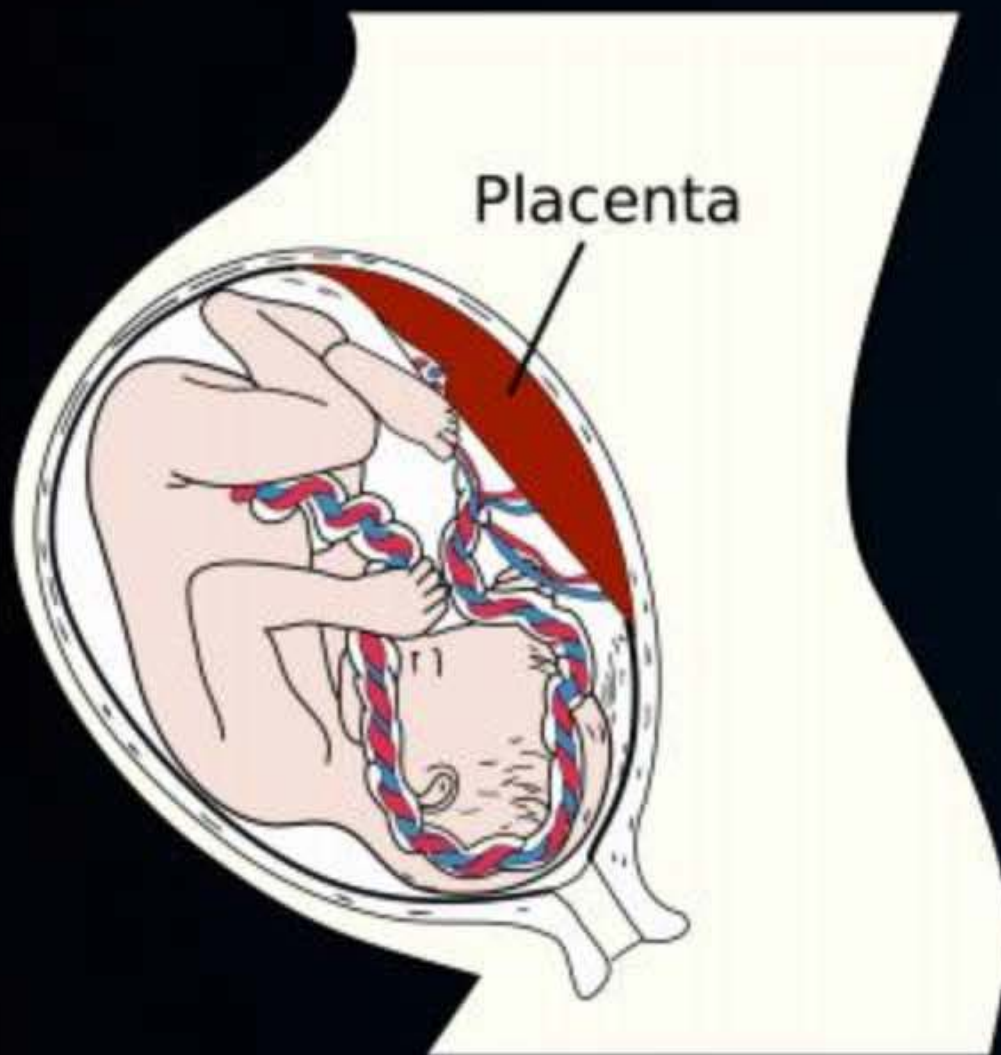


Development of a growing embryo take place in

- A Uterus
- B Ovary
- C Fallopian
- D Vas deference



# How does growing embryo/foetus get nutrition ?





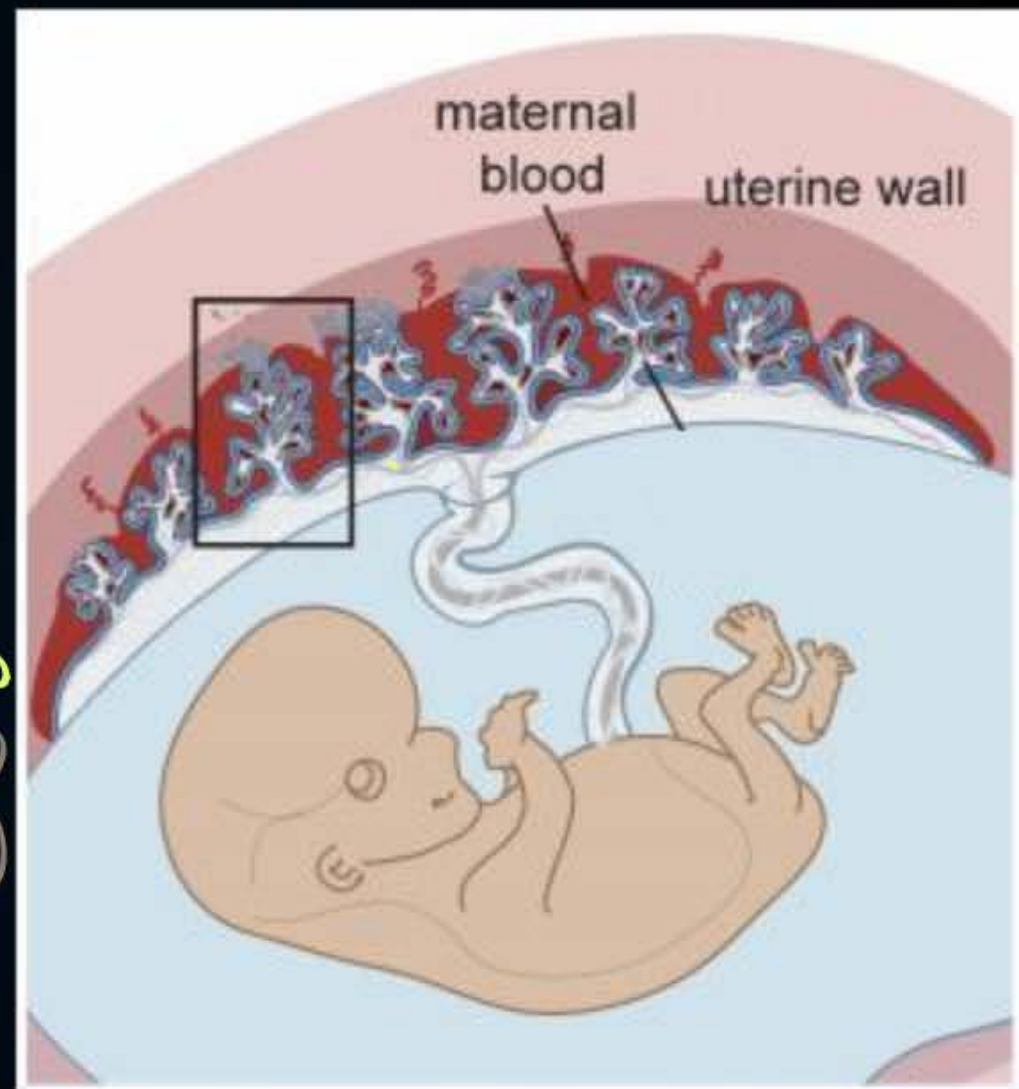


# How does growing embryo/foetus get nutrition ?



## Placenta

- Disc-Shaped tissue developed inside uterus during pregnancy.
- Help to provide nourishment to growing Embryo
- Placenta has "Villi" { Provide large surface area for exchange of substances }
  - ↳ glucose & Oxygen from Mother blood to foetus
  - ↳  $CO_2$  & other waste from foetus to Mother's blood



Which of the following is not associated with female reproductive system ?

- ☐ A Placenta ✓
- ☒ B Testis ✓
- ☐ C Fallopian tube ✓
- ☐ D Oviduct ✓



## Question

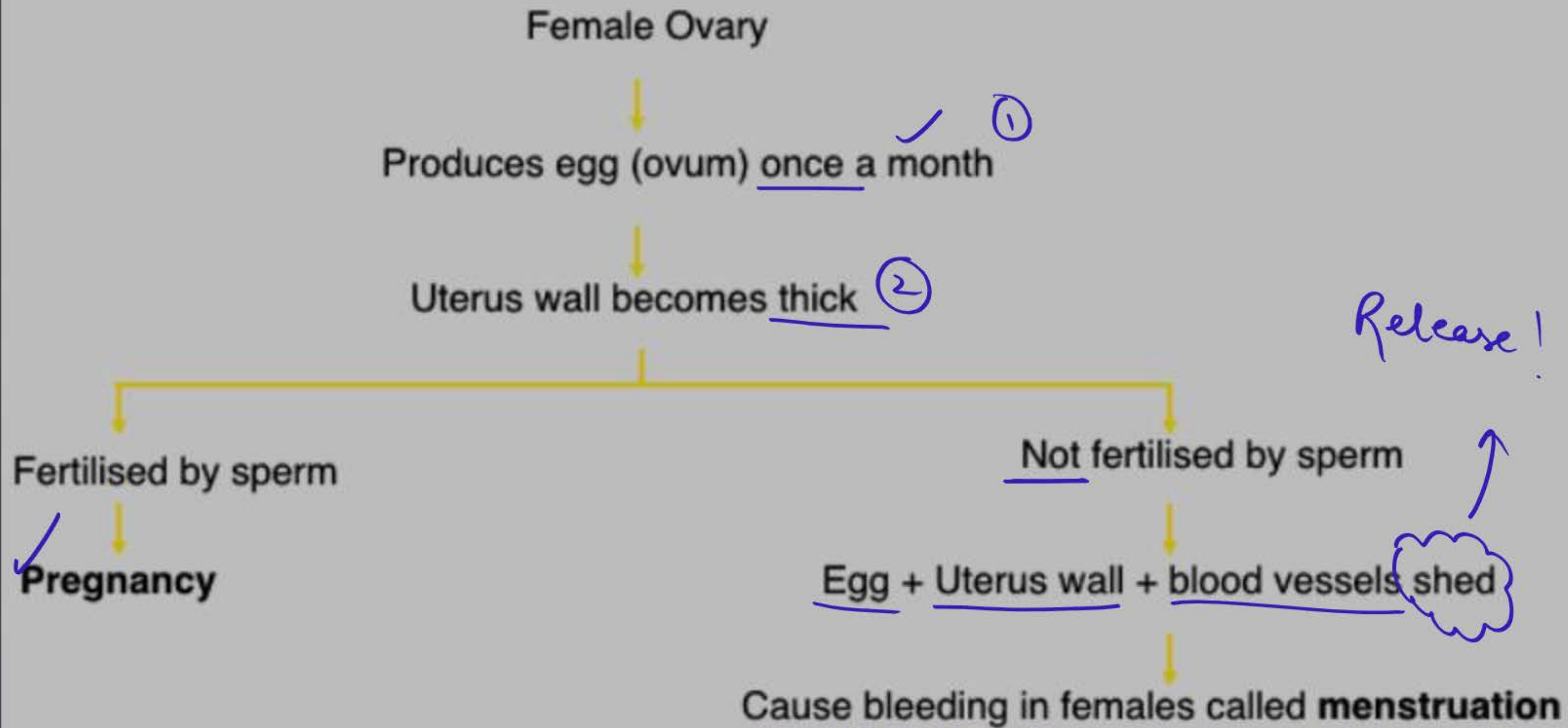


\_\_\_\_\_ helps in providing nutrients from mothers blood to growing embryo ?

- ☒ A Placenta
- ☐ B Testis
- ☐ C Fallopian tube
- ☐ D Oviduct



# What happens when the Egg is not Fertilised?



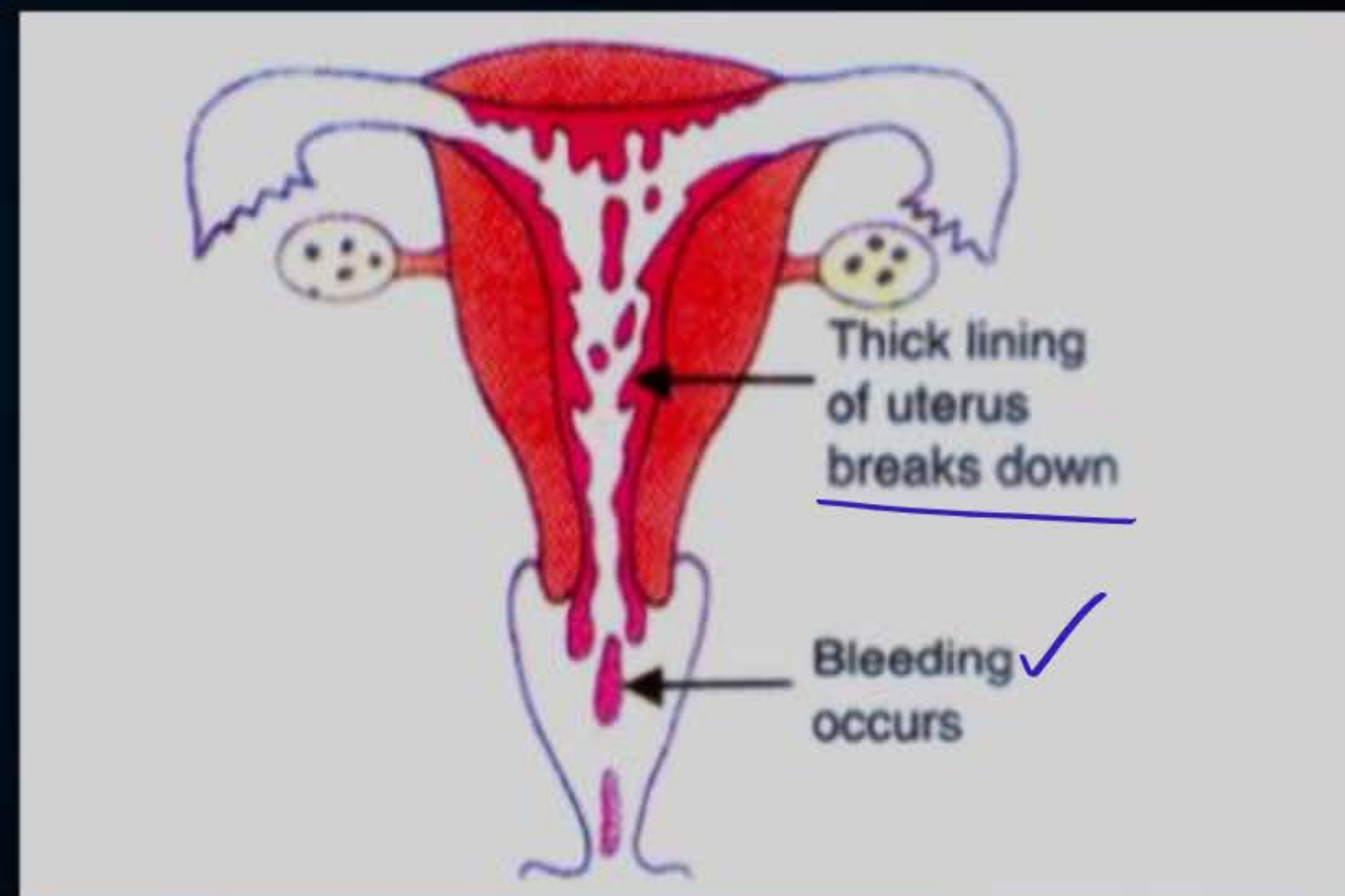
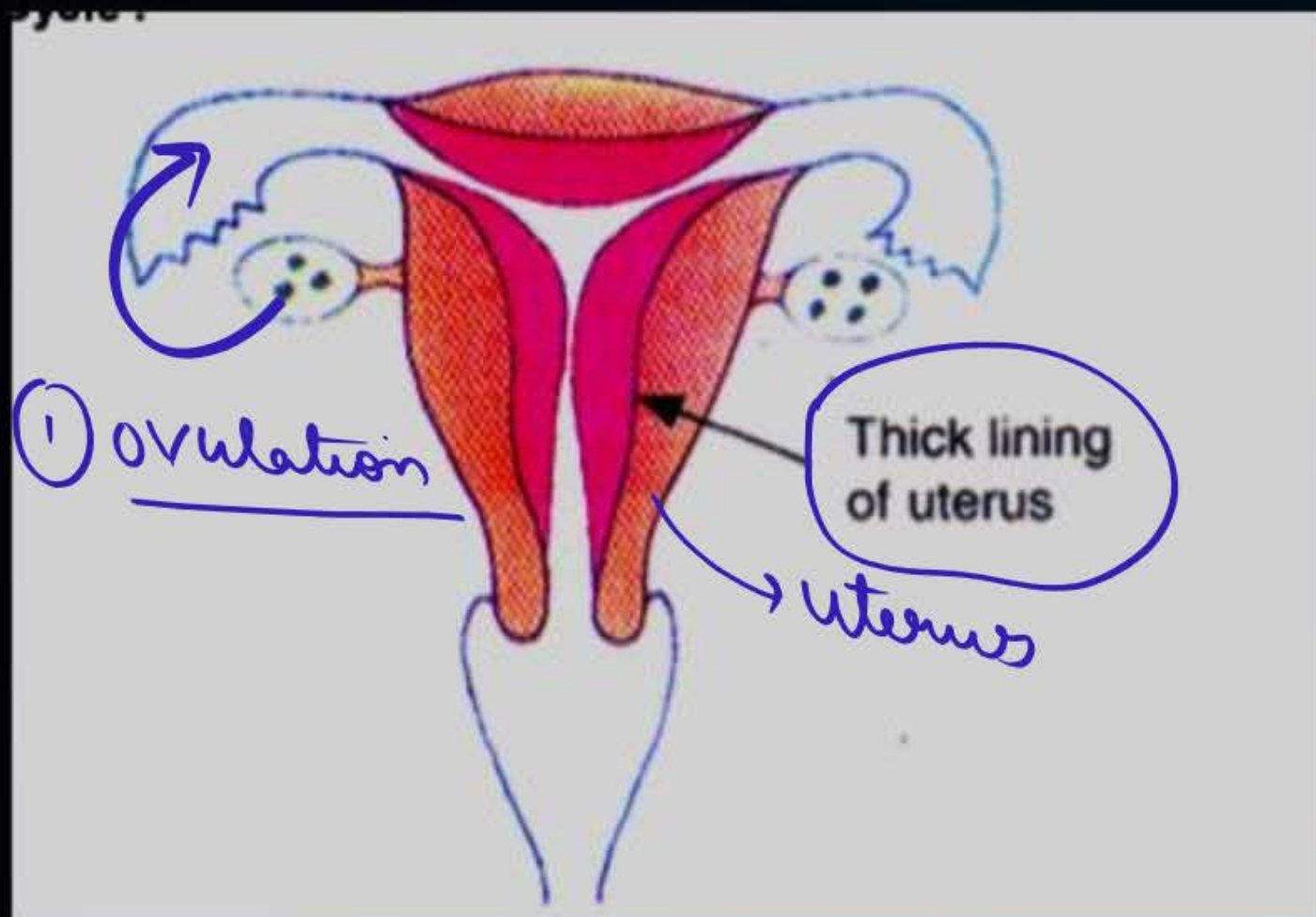




# What happens when the Egg is not Fertilised?



\* 4-6 days Vaginal bleeding





# Menstruation



Girl child → **Menarche** → **Menopause** → Old age

First time menstruation

*Begins at **Puberty***

Stoppage of menstruation

*At **45 to 50 years old***

Menarche  
11-12 years



Menopause  
50 years - death





Stoppage of menstrual cycle is referred as-

- ☐ A Menarche
- ☒ B Menopause ✓
- ☐ C Implantation
- ☐ D Ovulation



## Question of the day



IVF





## Joke/Meme of the Day



students shouting - \*practical \* \*Practical\*





THANK  
YOU

