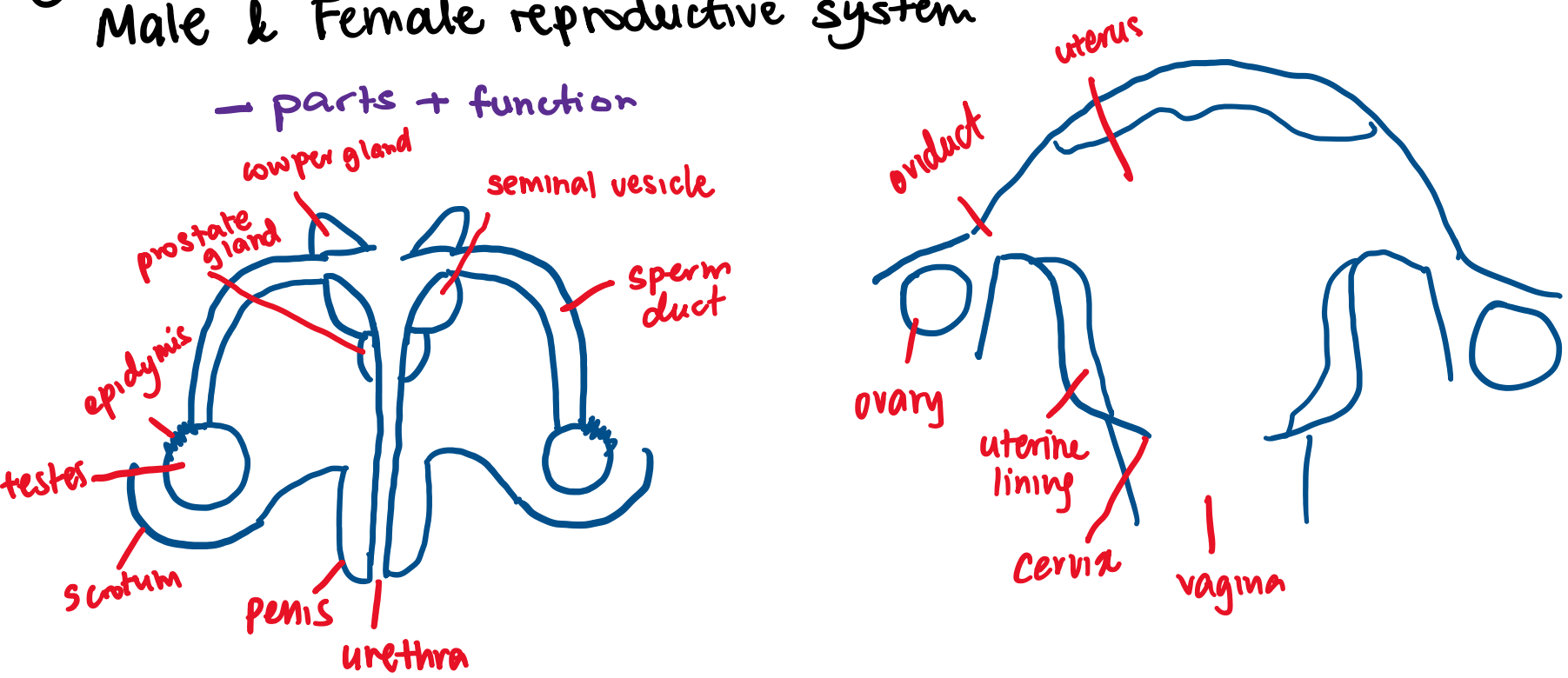
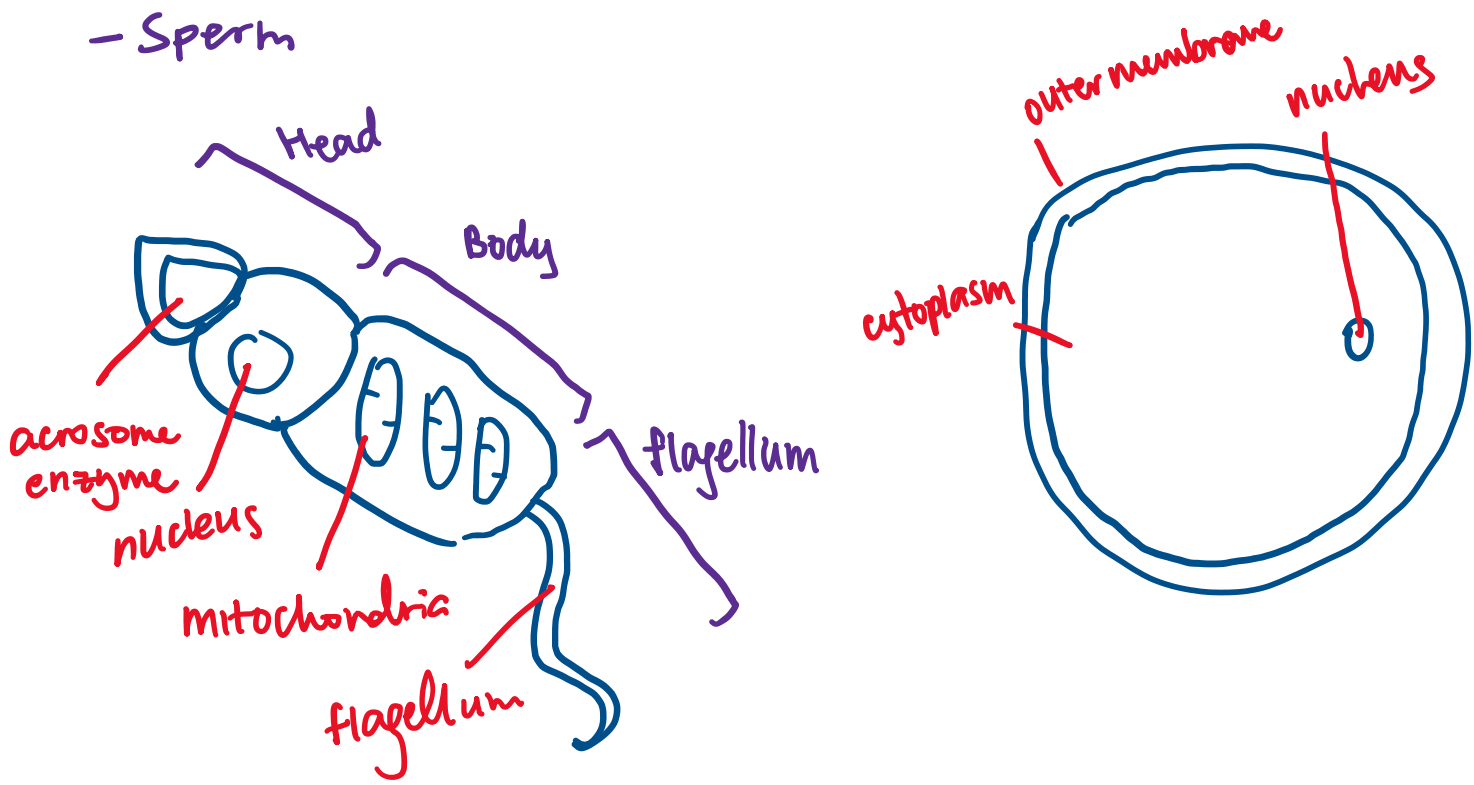


① Male & Female reproductive system

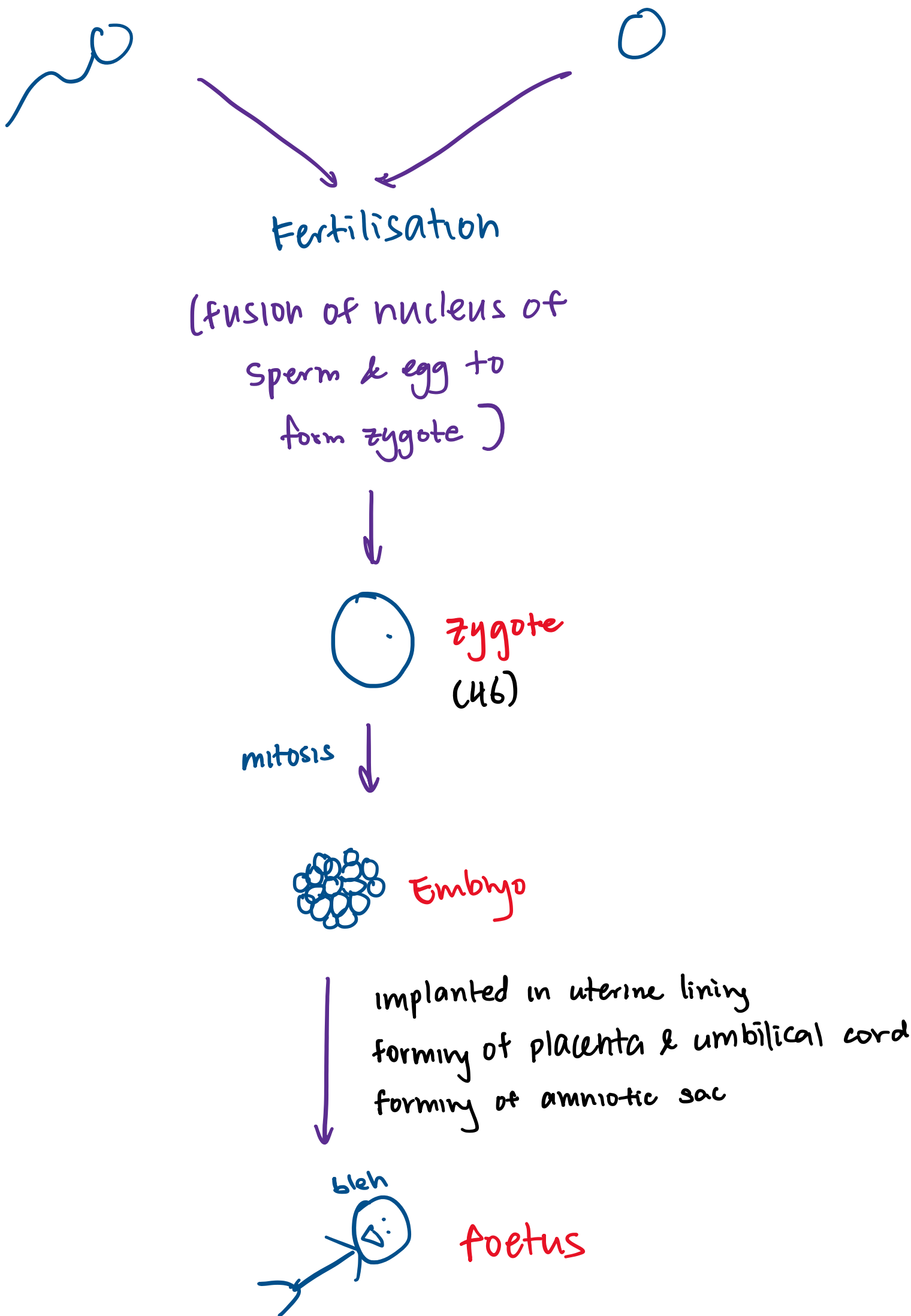


② Sperm & Egg

- Gametes
- Haploid no. chromosomes
- Sperm



③ Sperm Haploid no. (23) Egg (ovum) Haploid no. (23)



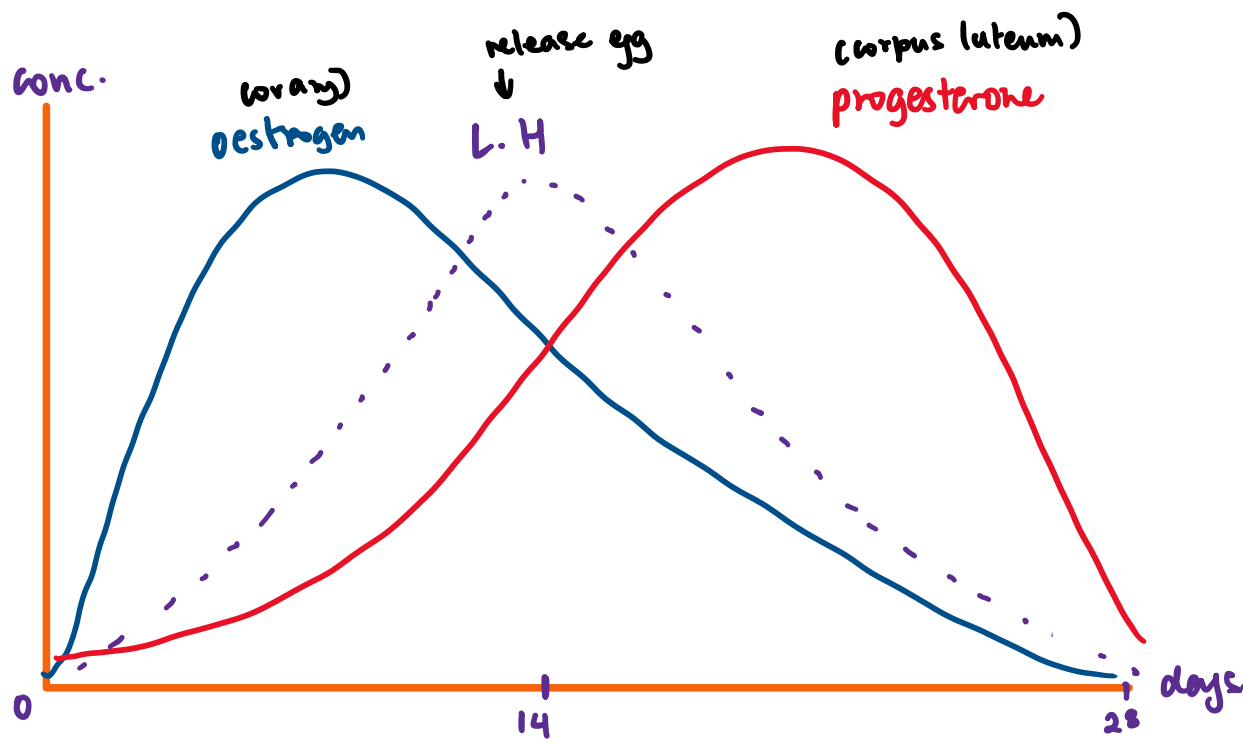
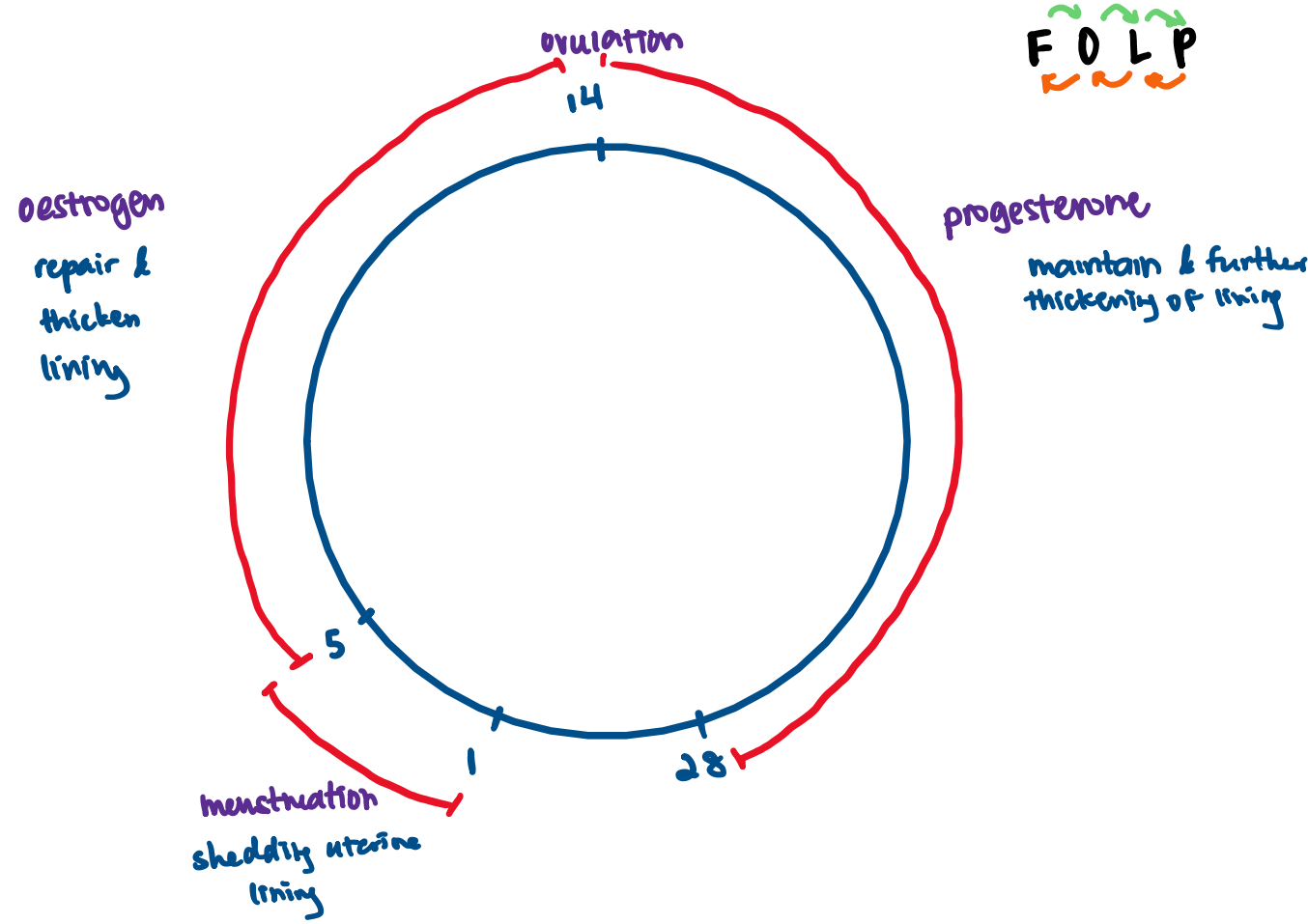
④ Puberty

- Purpose: ready for reproduction

male	female
<ul style="list-style-type: none"><li>• deeper voice</li><li>• bigger mass</li><li>• facial / pubic hair</li><li>• production of sex hormones</li><li>• testosterone</li></ul>	<ul style="list-style-type: none"><li>• Broader hips</li><li>• chest / Breast develop - milk production</li><li>• menstrual cycle</li><li>• oestrogen</li><li>• progesterone</li></ul>

⑤ Menstrual cycle

- Purpose: Prepare for implantation of embryo

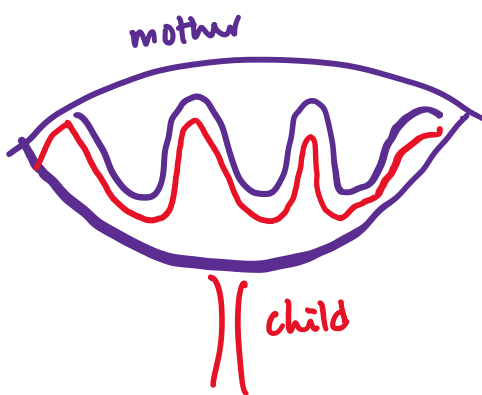


- Alt graphs
- Pregnant — prog ↑
  - Contraceptive pill
    - ↑ prog
    - ↑ oest

⑥ Placenta & umbilical cord

Ⓐ Placenta Function

- Release Oestrogen & progesterone - maintain implantation
- Exchange dissolved food substance, waste products & gases



- maternal blood vessel do not connect w/ fetus blood vessel
- 1. Why? difference in blood pressure
  - difference in blood type
- 2. How exchange happen?
  - Diffusion
- 3. Constant flow of blood
  - Constant conc. gradient