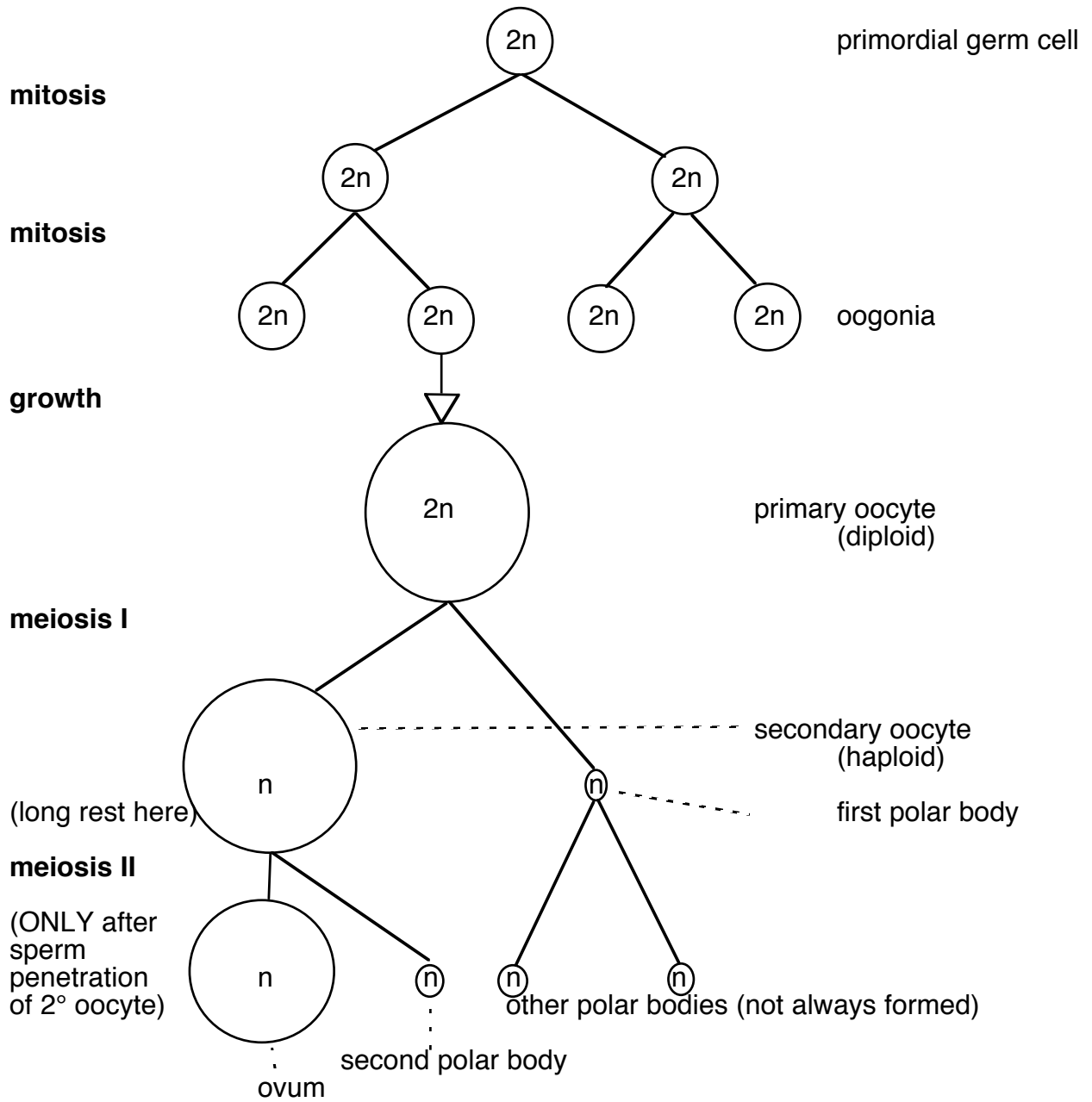
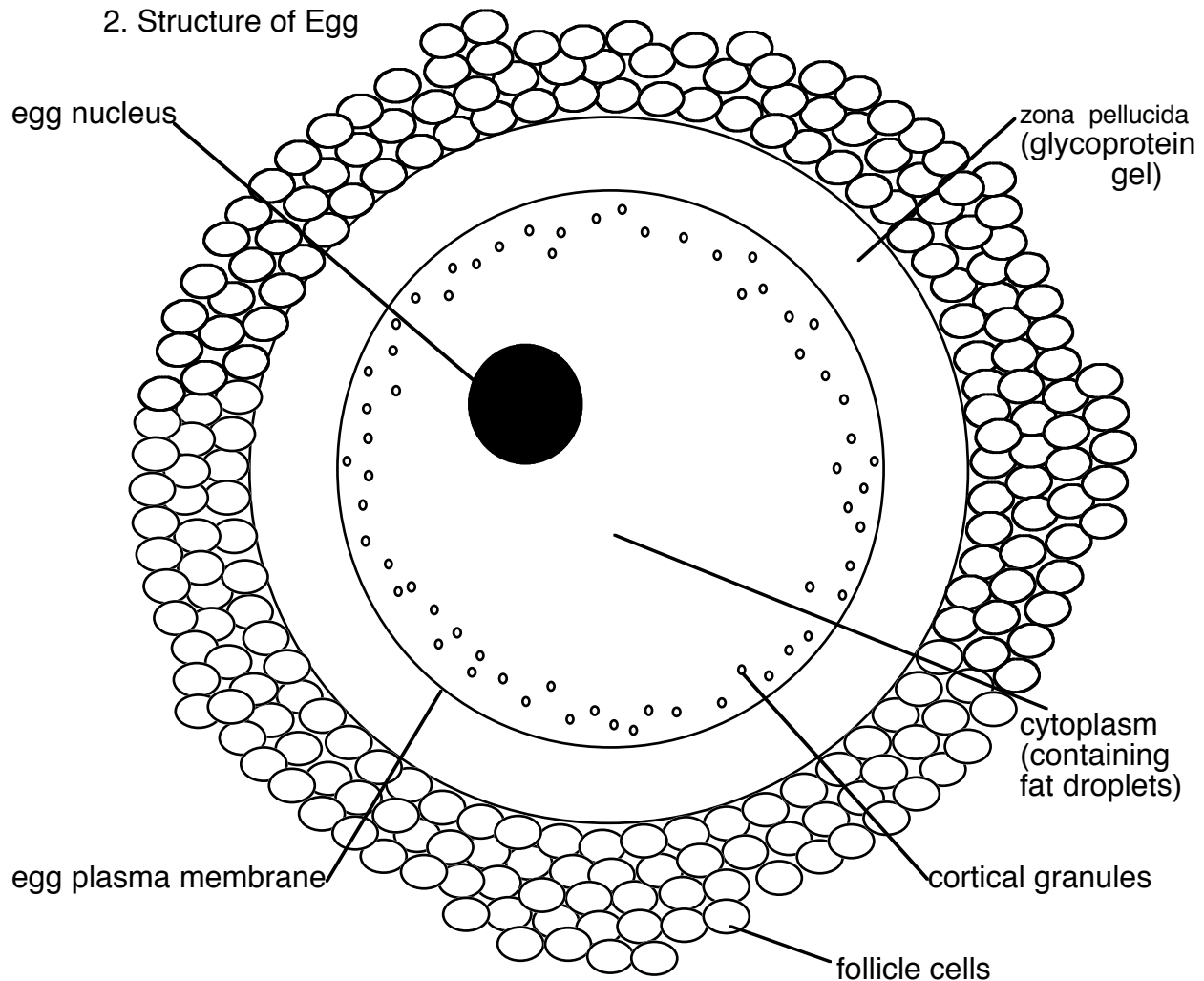


B. Oogenesis - the development of egg cells
 1. Processes Involved (in ovaries)



Then polar bodies degenerate.



3. Note Microscopic structure of ovary in LAB (and book)

C. Comparison of oogenesis & spermatogenesis

1. Similarities:

- Both start with proliferation by mitosis
- Both involve cell growth before meiosis
- Both gametes produced in the gonads by the two divisions of meiosis

2. Number of gametes produced in total:

- Spermatogenesis - millions daily
- Oogenesis - one every 28 days

3. Number of gametes per cell:

- Spermatogenesis - 4 sperm cells from 1 primary spermatocyte
- Oogenesis - 1 ovum from 1 primary oocyte

4. Timing of formation:

- Males - gametes produced continuously from puberty until old age
- Females - primary oocytes produced before birth, then 1 ovum per month from puberty until menopause

5. Release of gametes:

- Males - release gametes during ejaculation (any time)
- Females - on a monthly cycle (about day 14) by ovulation