

VEER KUNWAR SINGH UNIVERSITY - ARA

B.Sc.

ZOOLOGY (HONOURS) -

PART - III

PAPER - VI

FROM

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22.5.2020

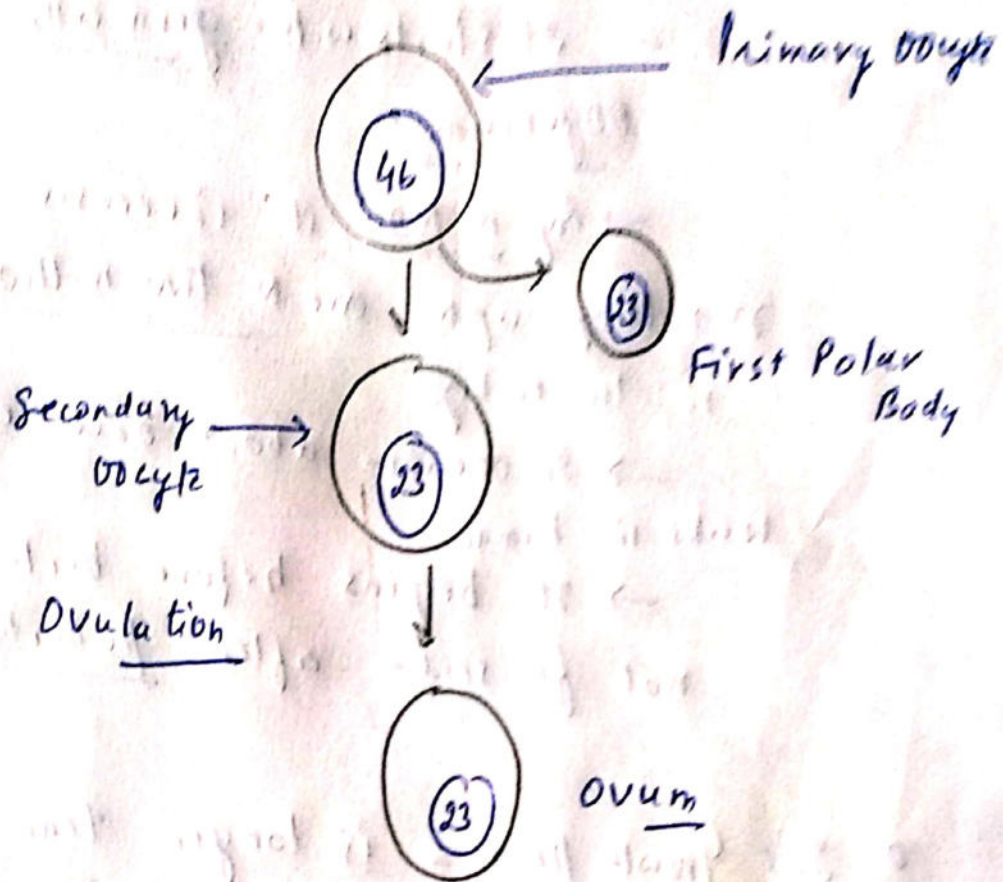
Zoology (H)

BSc-IIIrd

Paper-VI

Oogenesis

①



o Oogenesis - or ovogenesis -

• It's the differentiation of the ovum (egg cell) into a cell competent to further develop when fertilized

o It's develop from the primary oocyte by maturation

o Oogenesis is initiated in the embryonic stage

o Phases :- 03

① Multiplication phase, ② Growth phase

③ Maturation phase

(2)

o Oogenesis - occur - in the outer most layers of the ovaries

- It starts with - germ cells, called an oogonium

→ By mitosis, it increases in number resulting up to one to two million cells in the embryo

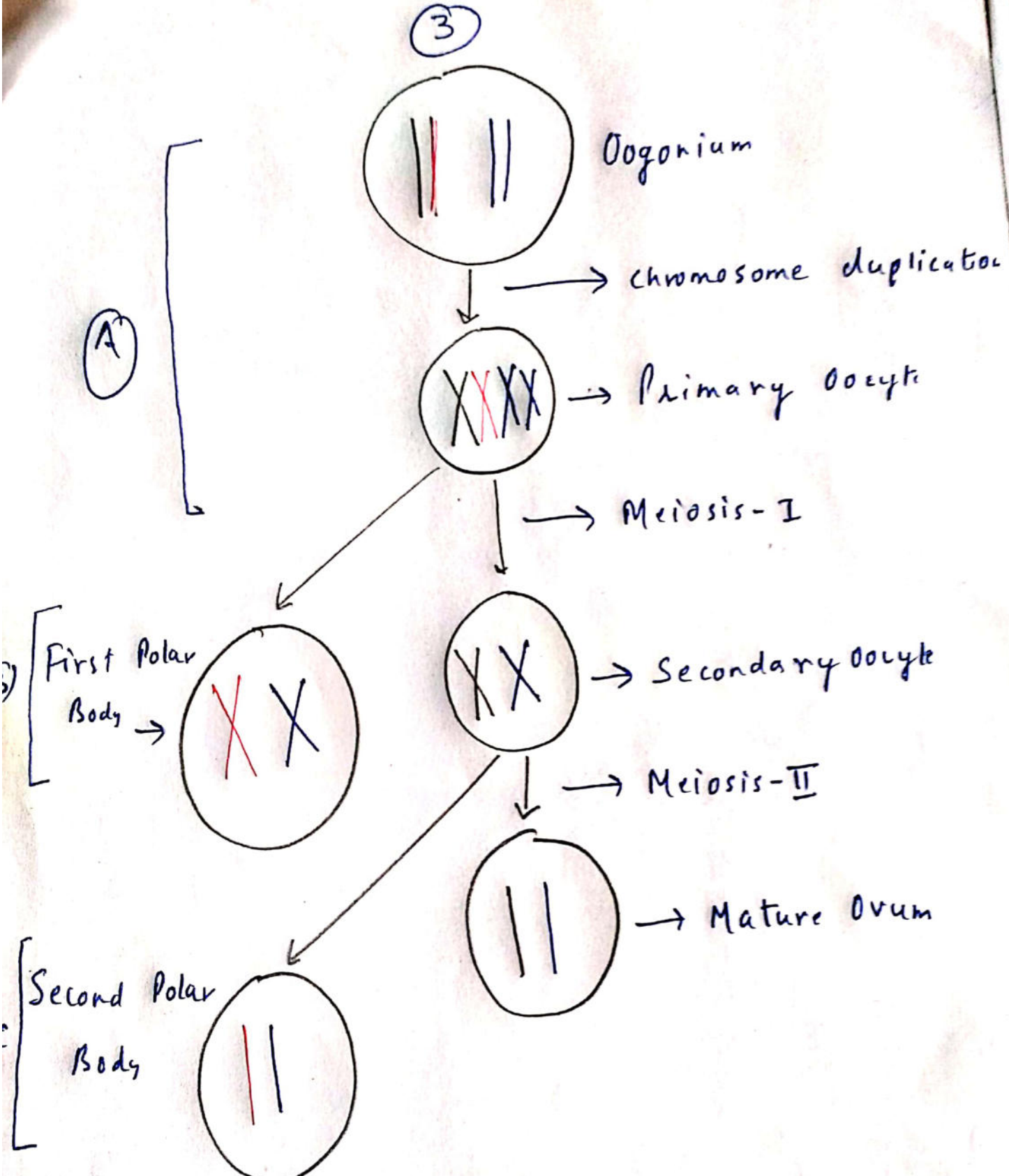
→ It occurs - about once every four weeks in human

→ It begins before birth, but is not finished - after puberty

o It's Growth phase - is longer than the growth phase of Spermatogenesis

→ The size of primary oocyte increases - enormously

→ The cytoplasm of the oocyte becomes rich in RNA, DNA, A- and enzyme



Oogenesis

- A - Before Birth
- B - Menstrual cycle
- C - Fertilization

Next class - In DNA