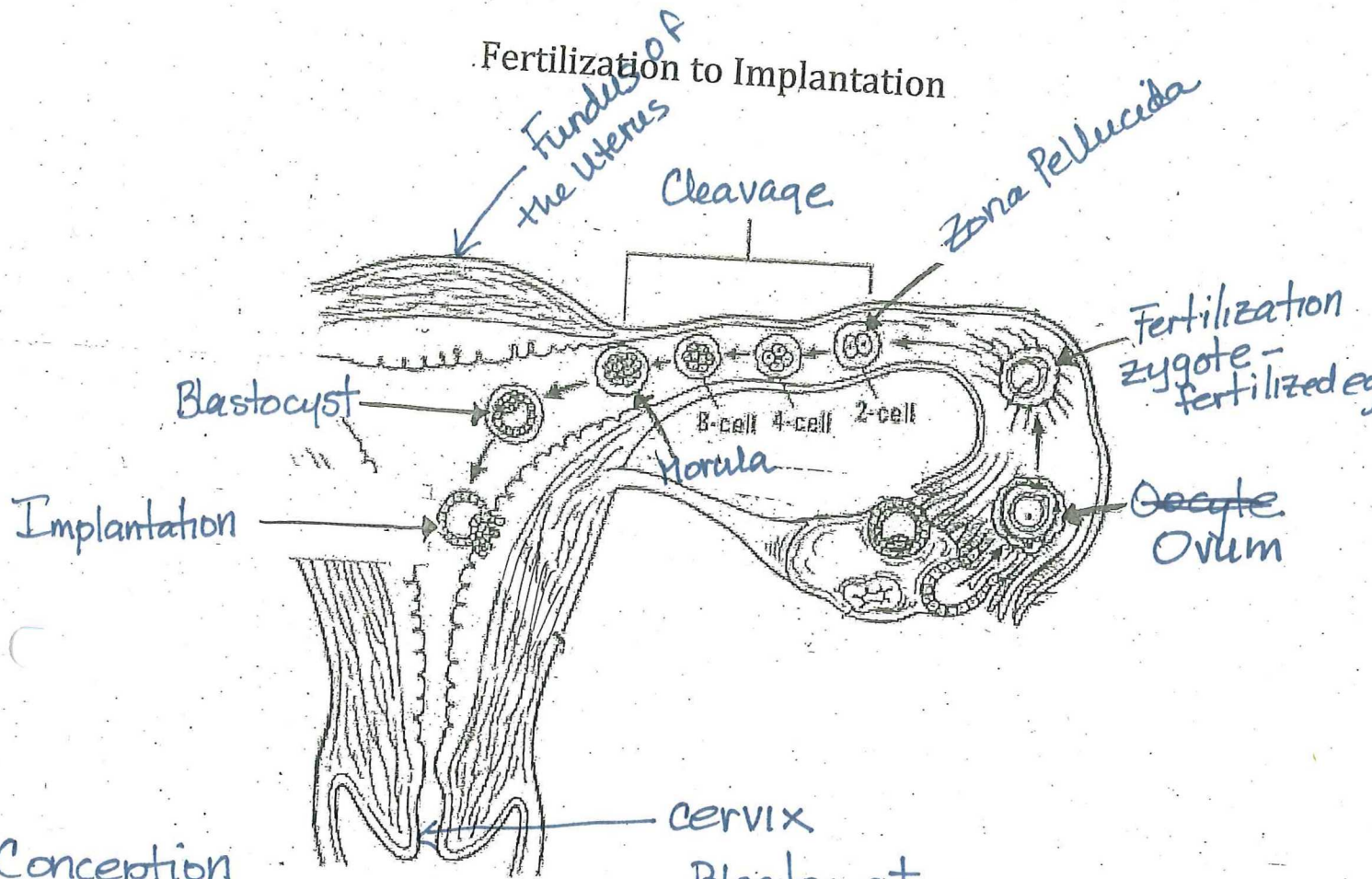


Fertilization to Implantation



Conception
 - fertilization
 - implantation

Zona Pellucida -
 - thick extracellular coat that surrounds the zygote until implantation occurs

Cleavage - rapid mitotic division of a zygote to form a hollow, spherical multicellular blastocyst
 - occurs in Fallopian tubes
 - size of the zygote does not change - only the # of cells

Morula
 ≈ day 4
 - 16 cells
 - compaction occurring
 - Morula - Latin - Mulberry

Blastocyst -
 ≈ 32 cells
 ≈ day 5

Implantation - day 7
 - implants in endometrium
 - loss of zona pellucida

Embryo - appx day 5 - week 8

Fetus - week 9 +

Gestation Period - period of development from fertilization to birth (40 weeks)

- * inner cell mass of blastocyst - becomes embryo
- twins - (identical twins)
 if the inner cell mass divides
- conjoined twins - bridge of cells in the blastocyst remains