

BIOS 256 Week #7 Discussion

3 major prenatal period: -

- Germinal period
- Embryonic period
- Fetal period

1) Germinal period: - this is for 2 weeks. Zygote forms after fertilization which after passing through

fallopian tube, get implanted on uterus.

2) embryonic period: - this is from 3 weeks to 8 weeks. Most major organs like heart, brain etc. form

in this stage. Basic structure of eyes, ears, nose, mouth form in this stage.

3) fetal period: - it is from 9 weeks till birth. It is final stage. In this, elaborate development of brain and nervous system occur. Sex organs of fetus also develop in this stage.

Extraembryonic membrane develops from: -

Ectoderm forms inner layer of amnion.

Mesoderm form chorion, outer membrane of amnion, umbilical cord.

Endoderm form yolk sac and allantois.

There are three major prenatal periods:

- The germinal stage: begins at conception when the sperm and egg cell unite in one of the two fallopian tubes.

: Cleavage (cell division)

: implantation

- Embryonic Stage: The beginning of the third week after conception marks the start of the embryonic period.

: Gastrulation

: Notochord formation

: Development of chorionic villi

- Fetal Stage: This period of develop begins during the ninth week and lasts until birth.

: marks more important changes in the brain.