Chapter 5 Reproduction and Development Section 3 Growth and Development

**Fertilization to Embryo**

1. Male \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ sperm into a woman’s vagina.
2. A few hundred sperm make it through the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ into the fallopian tube.
3. A few sperm \_\_\_\_\_\_\_\_\_\_\_\_\_\_the egg.
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ sperm gets through the outer coating of the egg.
5. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ forms around the egg to keep other sperm from entering.
6. When the sperm’s nucleus joins with the nucleus of an egg, the egg becomes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. The fertilized egg (zygote) travels down the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ toward the uterus.
8. This takes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ days.
9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ days after fertilization, the zygote has become a tiny ball of cells called an embryo.
10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs when the zygote embeds itself in the thick, nutrient-rich lining of the uterus.

**From Embyro to Fetus**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ begins to grow.

**Placenta**-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* It has a network of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that provide the embryo with oxygen and nutrients from the mother’s blood.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ produced by the embryo are removed in the placenta. It is removed by the mother’s blood, then she excretes it.
* Mother’s blood and embryo’s blood do not normally \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Weeks 1 and 2

* Doctor counts the beginning of a woman’s pregnancy from the \_\_\_\_\_\_\_\_ day of her last menstrual period.
* A normal pregnancy lasts about \_\_\_\_\_\_\_\_\_\_\_ days or \_\_\_\_\_ weeks.
* Fertilization takes place around the end of week \_\_\_\_\_.

Week 3 and 4

* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ moves to the uterus.
* It divides many times becoming a ball of \_\_\_\_\_\_\_\_\_\_, and implants itself in the wall of the uterus.
* Zygote is now an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Embryo’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cells begin to form.

Week 5 to 8

* The embryo becomes surrounded by a thin membrane called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Amnion-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* During week 5, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ forms.
* **Umbilical cord**-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and other organs begin to form.
* At 5-6 weeks, \_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_ begin to form.
* At \_\_\_\_\_ weeks, muscles, nerves, fingers, and toes start developing.
* The embryo can \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Week 9 to 16

* Begins to make tiny movements
* After week 10, the embryo is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* It’s \_\_\_\_\_\_\_\_\_\_\_\_\_ begins to look more human.
* More \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & can start to make a fist
* At week 10, it is about 35mm long.
* At week 16, it is about 108mm long.

Weeks 17 to 24

* Fetus can make \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Mother can start feeling \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Fetus can \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* If a fetus was born at 24 weeks, it may survive.
* 23-30cm in long

Weeks 25 to 36

* At 25 to 26 weeks, the fetus’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are well developed.
* It will not take it’s first breath until it is \_\_\_\_\_\_\_\_\_\_\_\_\_.
* At 32 weeks, it can open and close it’s \_\_\_\_\_\_\_\_\_\_\_\_\_.
* At 36 weeks, the fetus is almost ready to be born.

**Birth**

* 37 to 38 weeks-it is fully \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Full term = \_\_\_\_\_\_\_\_\_\_ weeks
* labor-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* These push the fetus through the mother’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and out.
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is cut (which is connected to the placenta) and tied.
* This will dry up and will leave you with a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The mother will expel the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the labor is complete.

**Infancy and Childhood**

* Infancy: birth to age\_\_\_\_\_

teeth appeared and you became more coordinated

* Childhood: age \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & muscles became more coordinated

**Adolescence:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* In boys, occurs between the ages of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* In girls, occurs between the ages of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Adulthood:**

* From age \_\_\_\_\_\_\_\_\_\_\_\_\_\_ (young adult) peak of physical development
* Around age 30: loss of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, deterioration of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, increase body fat, and loss of hair.
* 40-65 middle age: \_\_\_\_\_\_\_\_\_\_ hair, athletic abilities \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, & skin \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Over \_\_\_\_\_\_\_ is considered an older adult.