

**VI. Female Reproductive System**

- A) \_\_\_\_\_ produce eggs.
- Eggs are haploid cells made by \_\_\_\_\_.
  - Females are born with all eggs they will ever need.
    - An egg is not fully developed until ovulation
    - Females are born with millions of eggs, enough for several lifetimes.
  - Eggs are largest cells in the body.
  - Eggs do not move on their own.
  - Contain 23 chromosomes and all cell parts (mitochondria, ribosomes, etc) that the offspring will need to grow and develop.
- B) The menstrual cycle lasts 28 days (on average)
- Ovulation – release of an egg (typically 1 per cycle)
  - Menstruation – shedding of the uterine wall if fertilization doesn't occur
  - If pregnancy occurs, the menstrual cycle will temporarily stop.
- C) The \_\_\_\_\_ carries the egg to the uterus.
- D) The \_\_\_\_\_ is the womb where the baby will develop.
- E) The vagina is the birth canal where the baby will leave the body.

**VII. Development**

- A) Fertilization occurs in the \_\_\_\_\_.
- A fertilized egg is called a \_\_\_\_\_.
  - Fertilization restores the complete set of chromosomes, so the zygote is diploid (23 from the egg + 23 from the sperm = 46).
- B) A zygote develops in the following order:
- Cleavage – A form of \_\_\_\_\_; cells divide but do not differentiate
  - Differentiation – Cells begin to form into tissues and organs
  - \_\_\_\_\_
  - \_\_\_\_\_ – most major organs are formed (but not completed)
    - Continues to grow through cell division (mitosis)
- C) The \_\_\_\_\_ transfers nutrients and oxygen from the mother's blood into the blood of the fetus through the process of \_\_\_\_\_.
- The blood of the mother and fetus do not mix.
  - The fetus is attached to the placenta by the \_\_\_\_\_.
  - Waste produced by the fetus is also removed by the placenta.
    - Waste (CO<sub>2</sub>, urea, salts) diffuse from placenta into mother's blood.
    - Since the fetus does not eat solid food, it does not have to eliminate feces.
- D) The child is vulnerable to alcohol, drugs, etc because organs and systems are still developing.



Fertilization restores the correct number of chromosomes.

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