

Section 39–4 Fertilization and Development (pages 1016–1022)

This section describes fertilization and explains the function of the placenta.

Fertilization (pages 1016–1017)

1. The process of a sperm joining an egg is called _____.
2. Is the following sentence true or false? A fertilized egg is known as a zygote.

Early Development (pages 1017–1019)

Match each term with its definition.

Term	Definition
_____ 3. Morula	a. Organ that nourishes the embryo
_____ 4. Blastocyst	b. Name of embryo when it is a solid ball of about 64 cells
_____ 5. Implantation	c. Name of morula when it is a hollow ball of cells
_____ 6. Gastrulation	d. Membrane that surrounds and protects the embryo
_____ 7. Amnion	e. Process in which the blastocyst attaches to the wall of the uterus
_____ 8. Placenta	f. Process of cell migration that produces three cell layers

9. Is the following sentence true or false? The first few cell divisions take place in the Fallopian tube. _____
10. After eight weeks of development, the embryo is called a(an) _____.
11. Is the following sentence true or false? Most of the major organs and tissues are fully formed by the end of three months of development. _____

Control of Development (page 1020)

12. Is the following sentence true or false? The fates of many cells in the early embryo are not fixed. _____

Later Development (page 1021)

13. What changes occur during the last three months of fetal development? _____

Childbirth (pages 1022–1023)

14. Is the following sentence true or false? The process of childbirth begins when the hormone calcitonin is released from the posterior pituitary gland. _____

15. The series of rhythmic contractions of the uterine wall that force the baby out through the vagina is known as _____.
16. What stimulates the production of milk in the breast tissues of the mother? _____
- _____
- _____

Early Years (pages 1023–1024)

17. Is the following sentence true or false? A baby's birth weight generally triples within 12 months of birth. _____
18. Is the following sentence true or false? Infancy refers to the first year of life. _____
19. Circle the letter of each development that occurs during infancy.
- a. Crawling
 - b. Walking
 - c. Appearance of first teeth
 - d. First use of language
20. Childhood lasts from infancy until the onset of _____.
21. Is the following sentence true or false? Reasoning skills are not developed until adolescence. _____
22. Adolescence begins with puberty and ends with _____.
23. What produces the growth spurt that starts at puberty? _____
- _____
- _____

Adulthood (page 1024)

24. Is the following sentence true or false? Adults reach their highest levels of physical strength and development between the ages of 25 and 35. _____
25. When do the first signs of physiological aging appear in most individuals? _____
- _____