Name Date Class	
Name Date Class	

## Prenatal Development

CHAPTER 4

# **Study Guide**

**Directions:** Answer the following questions as you read the chapter. They will help you focus on the main points. Later, you can use this guide to review and study the chapter information.

#### Section 4-1: The Developing Baby

- 1. Briefly summarize the process of conception. Use the following terms in your summary: Fallopian tube, uterus, sperm, ovum.
- **2.** Complete the following chart about the stages of prenatal development.

Stage	Time Span	Development That Occurs
	Conception to two weeks	·
	Third through eighth week	
	Eighth or ninth week through birth	

3. Explain what each of the following is and describe the functions each performs.

A. Amniotic fluid:

B. Placenta:

C. Umbilical cord:

11. What is the only guaranteed way to avoid pregnancy?

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12. Complete the following chart about options for infertility.

Options	Description
Adoption	
	Sperm is injected into a woman's uterus.
	An egg from the woman is removed and fertilized with sperm from the man and then placed in the woman's uterus.
Ovum transfer	
Surrogate mother	

13. What are two reasons a couple who want children might not use these options?

## Section 4-2: Problems in Prenatal Development

- 14. Explain the difference between a miscarriage and a stillbirth.
- **15.** Identify each birth defect described below.
  - A. Inability of body to process a common protein:
  - **B.** Malformed red blood cells interfere with oxygen supply: \_\_\_
  - **C.** Lack of a certain blood chemical makes body unable to process certain fats in the brain and nerve cells:
  - **D.** Extra chromosome 21 typically results in mental retardation:
- **16.** Describe the causes of birth defects within each category listed below.
  - A. Environment:
  - B. Heredity:
  - C. Errors in chromosomes:
  - **D.** Interaction of heredity and environment:

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17. What does a genetic counselor do?		
18. Complete the following chart about prenatal tests		

Prenatal Test	Description	Risk
Alpha-fetoprotein (AFP)	·	No known risk
	Sound waves are used to make a video image of the unborn baby.	
Amniocentesis		
Chorionic villi sampling		

# Section 4–3: Avoiding Dangers to the Baby

19.		mpare fetal alcohol syndrome (FAS) and fetal alcohol effects. How are they similar? How are they ferent?
	-	
20.		ny is it critical to avoid taking medications in the first three months of pregnancy unless specifically escribed?
21		scribe the possible effects on a baby of each hazard listed below.
-1.		Caffeine:
	В.	Tobacco:
	C.	Cocaine: