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## 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*.

SECTION OF SECTION	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 fo	ollowing is and	describe the	functions eac	h performs.	
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B. Place	nta:		•	1	
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C.	Umbilical cord:	·		
			I	

4.	Briefly summarize the changes that commonly occur in a woman during the first two months of pregnancy.
5.	What is "lightening" and when does it occur?
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	ction 4–2: A Closer Look at Conception
· 6.	What is heredity? Name three characteristics that can be hereditary.
_	
7.	Summarize the relationship between chromosomes, genes, genomes, and DNA.
	-
8.	Explain the difference between dominant genes and recessive genes.
9.	Which parent can provide either an X or Y chromosome to the baby? Which chromosome must come from this parent for the child to be female?
10.	Explain how each of the following occurs:
	A. Identical twins:
-	B. Fraternal twins:
4 4	YYV
i I,x	What is the only guaranteed way to avoid pregnancy?

Name		Date	Class
Prenatal Devel	opment		Chapter 4 continue
2. Complete the	following chart about op	tions for infertility.	
Options	Description		
Adoption			
	Sperm is injected	ed into a woman's uterus	
,	, 00	e woman is removed and laced in the woman's ute	fertilized with sperm from the
Ovum trans	er		
Surrogate mo	ther .		
	reasons a couple who wa	nt children might not us	e these options?
Section 4–3: F	Problems in Prenatal	•	
<b>Section 4–3: F 4.</b> Explain the diagram of the di	Problems in Prenatal fference between a miscar birth defect described below	riage and a stillbirth.	
<b>Section 4–3: I 4.</b> Explain the di <b>5.</b> Identify each <b>A.</b> Inability of	Problems in Prenatal fference between a miscar birth defect described below	riage and a stillbirth w. on protein:	·
5. Identify each A. Inability of B. Malformed	Problems in Prenatal  fference between a miscar  birth defect described below body to process a common red blood cells interference tertain blood chemical material	riage and a stillbirthw. on protein: with oxygen supply:	
5. Identify each A. Inability of B. Malformed C. Lack of a conerve cells D. Extra chros	Problems in Prenatal  fference between a miscar  birth defect described below body to process a common red blood cells interfered tertain blood chemical materials.	riage and a stillbirth.  w. on protein: with oxygen supply: akes body unable to products  lts in mental retardation:	cess certain fats in the brain a
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5. Identify each A. Inability of B. Malformed C. Lack of a conerve cells D. Extra chro 6. Describe the conerve cells B. Heredity:	Problems in Prenatal  fference between a miscar  birth defect described below body to process a common red blood cells interfered tertain blood chemical materials.  mosome 21 typically resultances of birth defects with the common red blood cells interfered tertain blood chemical materials.	riage and a stillbirth.  w. on protein: with oxygen supply: akes body unable to prod lts in mental retardation: hin each category listed b	cess certain fats in the brain a
5. Identify each A. Inability of B. Malformed C. Lack of a conerve cells D. Extra chro A. Environme B. Heredity: C. Errors in cone	Problems in Prenatal  fference between a miscar  birth defect described below body to process a common red blood cells interfere the sertain blood chemical materials are sertain blood chemical materials.  mosome 21 typically resultances of birth defects with the sertain blood chemical materials.	riage and a stillbirth.  w. on protein: with oxygen supply: akes body unable to prod lts in mental retardation: hin each category listed l	cess certain fats in the brain and below.

- 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 4-4: Avoiding Dangers to the Baby

- 19. Compare fetal alcohol syndrome (FAS) and fetal alcohol effects. How are they similar? How are the different?
- 20. Why is it critical to avoid taking medications in the first three months of pregnancy unless specifi cally prescribed?
- **21.** Describe the possible effects on a baby of each hazard listed below.
  - A. Caffeine:
  - B. Tobacco:
  - C. Cocaine:

Name	Date	Class
Prenatal Development		Chapter 4 continued
<b>22.</b> What is <i>SIDS</i> ?		·
<b>23.</b> If an expectant mother needs X rays becaushe is pregnant?	se of an accident, w	hy should she tell the doctors that
<b>24.</b> Give three examples of hazardous substance	ces pregnant women	should avoid

**25.** Complete the following chart about infections during pregnancy.

Infection	Possible Effects on Baby		Prevention	
Rubella			<b>監</b> 領	
Toxoplasmosis		· · · · · · · · · · · · · · · · · · ·		
			·	·
		*		
Chicken pox				
STDs	Serious illnesses, physical disabilities, death			
AIDS		·		• .
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