

**Biology Homework Chapter 7: Continuity Through Development  
Pages 163 - 177**

Answer the questions with complete thoughts!

**\* Sections 7.1 through 7.3: Regulated Development.** Read pages 163 to 168

**PART A:** Define the terms.

*Zygote                  Embryo                  Development                  Differentiation                  Cleavage*

*Blastula                  Gastrula                  Regulatory molecule*

**PART B:**

1. Explain how scientists know that all cells from the same organism contain the same genetic information (see frog experiment on page 166, figure 7.3).

**PART C:**

1. Read, study and know pages 163 - 168. Answer questions **1 through 6** in the **CONCEPT REVIEW on page 168**. Answer the questions in complete intelligent answers.

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**\* Sections 7.4 through 7.6: Animal Development.** Read pages 168 - 173

**PART A:** Define the terms in your own words.

<b>Row 1</b>	<i>Fertilization</i>	<i>Implantation</i>	<i>Placenta</i>	<i>Chorion</i>
<b>Row 2</b>	<i>Umbilical cord</i>	<i>Amnion</i>	<i>Embryo</i>	<i>Fetus</i>
<b>Row 3</b>	<i>Amniocentesis</i>	<i>Trimester</i>	<i>FAS</i>	<i>Addiction</i>

**PART B:**

1. Sketch a cross-section of the *Uterus*. Include and label the following: **UTERUS, VILLI, CHORION, PLACENTA, UMBILICAL CORD, and AMNION.**

2. Specifically, what is the after birth?

3. Why is it recommended that a pregnant woman of age 35 or older have a prenatal diagnosis?

**PART C:**

Read, study and know pages 168 - 173. Answer questions **1 through 4** in the **CONCEPT REVIEW on page 173**. Answer the questions in complete intelligent answers.

**Possible Essay:**

Briefly describe 3 methods to determine genetic diseases and birth defects while the fetus is still in the mother's uterus.

\* **Sections 7.7 and 7.8: Cancer.** Read pages 173 - 175

**PART A:** Define the terms.

*DNA*

*Metastasis*

*Oncogenes*

*Cancer*

*Proto-oncogenes*

*Benign tumor*

*Malignant tumor*

**PART B:**

1. Give two unique properties (characteristics) of malignant tumors.
2. Give **two** possible environmental causes for cancer. Be specific!
3. Give **one** possible treatment for cancer.
4. Give **two** ways cancer may be prevented. Note: the prevention must fit a specific type of cancer that is being prevented.

**PART C:**

Read, study and know pages 173 - 175. Answer questions **1 through 3** in the **CONCEPT REVIEW on page 175**. Answer the questions in complete intelligent answers.

**Possible Essays:**

1. Explain how scientists are using proteins made from **tumor-supressor genes** to control tumor growth. (See page 175 for help!)
2. Knowing what you have learned about malignant tumors, how do YOU think skin cancer can develop. Please use terms such as UV light, genes, mutation of DNA, skin cells, metastasize, and malignant tumor.