

## CYTOGENETICS – EXAMINATION

c. which cells are affected and how to replace the protein's function in them.

Studying these, researchers will be able to find ways on how to treat or at least prevent abnormalities and develop treatment that could compensate to the function or replace affected cells.

d. how the mutation was caused.

6. Factors that control how often a cell divides include which of the following? Why?

a. which chromosomes are active and which are not.

b. the activity level of the person, diet, and environmental exposures.

c. where chromosomes are located within the nucleus.

d. telomere lengths, hormonal signals, crowding, and growth factors. Telomeres are sections of DNA found at chromosomes tips. Telomeres length shorten after approximately 50 division which lead to loss of DNA that signals mitosis to stop. Hormones and growth factors are chemical signals that control the cell cycle from outside. In example, the lack of human growth hormone can inhibit cell division resulting dwarfism, while too much HGH can cause gigantism. Plugging growth factor receptors on cancer cells can block the signals for cells to divide. As cell grows, its surface-to-volume ratio is decreasing. This event cause cell crowding and is one factor that can inhibits cell division.

7. Briefly describe the difference between a stem cell and a progenitor cell.

**Stem Cells** are reserve cells that has a potential to create many new different cells that has the ability to replace or repair dying and damaged cells. Progenitor cells are more specialized than stem cells and they can only be pushed to differentiate into its target cell. In addition to their differences is the characteristic of self-renewal. Stem cells has the ability to give rise to another cell like itself, meanwhile progenitor cell cannot self-renew and can divide only a limited number of times.

8. What disease associated with thalidomide ingestion during pregnancy? Provide explanation.

Thalidomide embryopathy, or thalidomide syndrome is develop. Thalidomide is a sedative tranquilizer taken by pregnant women to alleviate nausea in early pregnancy, during the critical period for limb formation. Ingestion of this during pregnancy can result to severe birth defects including incomplete and malformed limbs, and problems in other organs.

9. A cell that has a diploid number of 8 chromosomes has 4 chromosomes lined up in the center of the cell, each chromosome containing two joined sister chromatids. What phase of the cell cycle is this cell in?

a. Metaphase I of meiosis.

b. Metaphase II of meiosis.

c. Metaphase of mitosis. During this phase, the chromosomes align along the center of metaphase plate. Sister chromatids joined at the center by kinetochores.

d. Telophase I of meiosis.

10. In about 1 in 200 pregnancies, a sperm fertilizes a polar body instead of an ovocyte. A mass tissue that is not an embryo develops. Why can't a polar body support the development of an entire embryo?

Polar body is one of the byproduct of the division of the primary oocytes during the meiosis I. It is small cell with a very little cytoplasm, this can explain why it can't support the development of an entire embryo. Polar body have no role in embryo.

# Cytogenetics Study Guide

**Haiying Meng**

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located on the right side of the light blue bar.

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