# BIOL 133 Chapter 13 (PSU) Questions with answers

The end of a linear chromosome is called...

✓ a telomere

Define: Aneuploidy

a change in chromosome number that is not a complete set

A chromosome is metacentric if...

the centromere divides it into two arms of approximately the same length

A chromosome is submetacentric if...

the centromere establishes one long arm and one short arm

A chromosome is acrocentric if...

it pinches off only a small amount of material toward one end

Define: Cytogenetics

The field of genetics that correlates the structure, number, and behavior variation

The meiotic error that causes aneuploidy is called...

Nondisjunction

How many weeks into a pregnancy do noninvasive prenatal diagnoses start being performed?

✓ 10 weeks

When does an insertional translocation cause symptoms? (3)

✓ 1. When the inserted DNA disrupts a vital gene

When crucial DNA sequences are lost

When crucial DNA sequences are present in excess

The largest constriction of a chromosome is called the ...

✓ Centromere

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**Lei Huang** 

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