

Name \_\_\_\_\_

## Genetic Disorder Chronicles: Unveiling the Mysteries of Abnormalities in Meiosis and Chromosomes

### Short Answer Key

1. Down syndrome is caused by an extra copy of chromosome 21, leading to developmental delays, distinctive facial features, and various health issues.
2. Turner Syndrome results from a missing or incomplete X chromosome in females, leading to short stature, infertility, and specific health challenges. Klinefelter Syndrome occurs in males and results from having an extra X chromosome (XXY instead of XY), often leading to reduced fertility, developmental delays, and other differences.
3. Cri-du-Chat syndrome is caused by the deletion of a portion of chromosome 5. Its primary features include a distinctive cry, developmental delays, and intellectual disabilities.
4. Prader-Willi Syndrome results from the loss of genetic material from the father's chromosome 15, leading to hyperphagia and obesity. Angelman Syndrome results from the loss of genetic material from the mother's chromosome 15 and leads to developmental delays and a happy, outgoing personality.
5. Early diagnosis of genetic disorders is important because it allows for timely intervention, potentially improving an individual's quality of life and enabling informed family planning and genetic counseling.

