S2– Genetics

MARK / 10

Parental Signature:

Homework 3

Read the passage below and answer the questions that follow on the back of this sheet or on lined paper:

There is a chromosome genetic disorder known as Edward Syndrome or Trisomy 18, which is caused by having 3 copies of chromosome 18, rather than 2. The condition was discovered by John Edward in 1960.

Symptoms include limited growth, a small head, a small mouth, clenched fists, heart defects and underdeveloped lungs.

Trisomy 18 is almost always fatal before birth and only 5-10% of babies born survive to be one year old. The condition is the second most common chromosome disorder after Down’s syndrome and occurs in approximately 1 in every 8000 births. The majority of people with the condition are female.

**There is a charity called the Trisomy 18 foundation that is raising funds to** carry out research and provide support for families with children who have the condition.

**Questions:**

1. What is the other name for Trisomy 18? (1)
2. What cause Trisomy 18 (1)
3. What was the name of the scientist who discovered the condition? (1)
4. In what year was trisomy 18 discovered? (1)
5. Give 2 symptoms of trisomy 18 (1)
6. What is the most common chromosome disorder? (1)
7. In how many births does Trisomy 18 occur? (1)
8. What gender is most affected by Trisomy 18? (1)
9. What is the name of the charity associated with the condition? (1)
10. What are the two purposes of the charity? (1)