***Biology 9 – Cells, Mitosis, and DNA Practice Quiz***

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1. Name the 4 different types of nucleotides,

Adenine \_

Thymine \_

Guanine \_

Cytosine \_

1. Which organelles digests & destroys wastes or chemicals?

Lysosomes

1. What are organelles only in Plant cells?

\_\_\_\_\_Chloroplasts\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Cell Membrane

Vacuoles

1. What are organelles only in Animal Cells?

\_\_\_\_\_\_Centrioles\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_Lysosomes\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is the point of cell reproduction?

\_\_\_\_\_\_Reproduction\_\_\_\_\_\_\_

\_\_\_\_\_\_Repair\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_Growth\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. How does DNA duplicate?

Before Cell Division, DNA replicates itself by splitting (Like a zipper) and then forming new base pairs\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. How much Chromosomes are in humans?

\_\_\_\_46

1. Pair the nucleotides together,

Thymine - Adenine

Cytosine - Guanine

Adenine - Thymine

Guanine - Cytosine

1. What are examples of a Eukaryotic Cell?

**a) Animal Cells**

b) Viruses

c) Archaea

**d) Plant Cells**

1. What does the Endoplasmic Reticulum do?

Endoplasmic Reticulum is an

1. What are DNA strains made from?

Nucleotides, Sugar, and Phosphate Base

1. What is the job of centrioles?

To help with cell division in the form of being anchors for the strains.

1. What are the 6 phases of cell division?

Interphase, Prophase, Metaphase, Anaphase, Telophase, Cytokinesis.

1. What phases are apart of cell mitosis?

Prophase, Metaphase, Anaphase, Telophase.

1. What are the properties of sperm cells?

Head, Mid, Tail

1. What are diploid cells?

Human Cells with 46 Chromosomes

1. What are Haploid cells?

Cells that are 23 chromosomes (Egg & Sperm cells only)

1. What stage does crossover happen?

Prophase 1

1. What are the pros of Sexual Reproduction?

* Genetic Diversity

1. What are the cons of Sexual Reproduction?

* Needs to find a mate.
* Produce fewer offspring.

1. What is Testosterone?

A Genetic Hormone in that produces sperm.

1. What are mammary glands?

Breasts.

1. What two events that will happen when eggs are released
2. Pregnancy
3. Menstruation
4. What are the approximate days of the phases in the Menstruation cycle?
5. Menstruation (1-5)
6. Follicular (6-13)
7. Ovulation (14)
8. Luteal Phase (15)
9. What are 3 obstacles for the sperm?
10. Acidity
11. Immune System
12. Abnormalities
13. What are the causes of cancer?
14. Carcinogens
15. Skin Cancer.
16. What are the secondary sexual characteristics of females?

1. Underarm Hair

2. Pubic Hair

3. Widening of the hips

4. Mammary Gland

5. Accessory Gland

28. What are the different types of Mutations?

1. Harmful

2. Beneficial

3. Neutral