**Term I Science Exam Review**

**Pages from Notebook:**

Page 4 - The Cell Theory

Page 5 - Mitosis

Page 6 - Meiosis

Page 7 - Mitosis vs Meiosis

Page 8 - Asexual Reproduction and Types

Page 9 - Sexual Reproduction in Plants

Page 10 - DNA

Page 11 - Fertilization

Page 12 - Fetal Development

**Terms/Vocabulary:**

* Angiosperms/Gymnosperms
* Importance of Cell Division
* Healing and Tissue Repair
* Growth
* Reproduction
* Cell Cycle/ Mitosis
* Prophase
* Metaphase
* Anaphase
* Telophase
* Interphase
	+ Asexual Reproduction
		- Binary Fission
		- Budding
		- Fragmentation
		- Vegetative reproduction
* Sexual Reproduction
* Internal Fertilization
* External Fertilization
* Zygote
* Gestational Period
* DNA (Deoxyribonucleic Acid)
* Sugar
* Phosphates
* Adenine
* Thymine
* Cytosine
* Guanine
* Gene
* Variation
* DNA Replication
* Mutations
* Carcinogens
* Chemicals
* Radiation
* Viruses
* Meiosis
* Diploid/Haploid Cells
* Sex Cells/ Reproductive Cells

**Questions:**

1. What are the three components of cell theory?
2. How has cell theory been used?
3. What is the purpose of mitosis?
4. Complete the table below:

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| --- | --- | --- |
| Order of Stage | Picture | Description of Stage |
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1. What is the difference between Mitosis and Meiosis?
2. What does crossing over refer to?
3. What is asexual reproduction? Explain what the four common types are.
4. How can pollination occur in plants?
5. What is the purpose of DNA?
6. Label the following DNA strand:
7. What are mutations? Give an example.
8. What is the difference between internal and external fertilization? Explain.
9. What type of fetal development is occurring during the First, Second and Third trimesters?