

# Biology Final Exam Review Study Guide (Genetics)

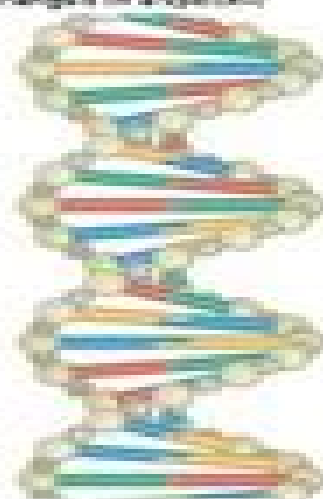
## DNA

Fill in the Blank (2-6) - Each term is used once.

Word Bank: Diploid, Haploid, Nucleus, Nucleotide, Sugar, Phosphate, Base, Order, Double Helix, Nucleic Acid, DNA, RNA,

- 1) Molecules in our cells where jobs it to store information are known as \_\_\_\_\_.
- 2) Examples of these molecules are known as \_\_\_\_\_ and \_\_\_\_\_. They are primarily located in the \_\_\_\_\_ of the cell.
- 3) Sets of this information can come alone as single units (one from each parent make the cell \_\_\_\_\_) or they can be found in pairs throughout most of the bodies cells making these cells \_\_\_\_\_.
- 4) The single unit of the Nucleic acid is known as the \_\_\_\_\_. This unit has 3 parts: the \_\_\_\_\_, and the \_\_\_\_\_, make up the backbone. The 3<sup>rd</sup> unit is known as the \_\_\_\_\_.
- 5) Together many nucleotides make up a chain which is double-sided and gets wound up in the shape of a \_\_\_\_\_.
- 6) This means why there is such a thing as the "DNA sequence" is because the nucleotides are arranged in a specific \_\_\_\_\_ which allows them to contain the genetic code.
- 7) Draw and label a Nucleotide in the space below. Use simple geometric shapes to represent each of the parts:

- 8) a. Describe how the structure of the DNA molecule allows it to store information.
- b. On the image to the right, label where one would find a sugar, a phosphate, a base and a base pair.



## Replication

Fill in the Blank (2-6) - Each term is used once.

Word Bank: Repar, Complementary, Helicase, DNA Polymerase, Base Pairs, Adenine, Guanine, Cytosine,

- 1) The purpose of making new cells for the body is because the body needs to \_\_\_\_\_ and \_\_\_\_\_.
- 2) In order to make new cells the original cell needs to make new copies of DNA, which are \_\_\_\_\_ to the original sequence.
- 3) The two sides of the double-sided strand are held together by \_\_\_\_\_.
- 4) Thymine is going to pair with \_\_\_\_\_. Cytosine is going to pair with \_\_\_\_\_.

# Study Guide For The 2015 June Biology Mcas

**Joan Elma Rahn**



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$$\frac{d}{dx} \left( \frac{f(x)}{g(x)} \right) = \frac{f'(x)g(x) - f(x)g'(x)}{g(x)^2}$$

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web we can calculate this answer in steps we start with differentiating in terms of the left most variable in  $xyz$  so here we start by taking the derivative with respect to  $x$  first  $f_x = 4\cos 4x yz$  then  $f_{xx} = 16\sin 4x yz$   $f_{xxy} = 16z\cos 4x yz$  finally  $f_{xxyz} = 16\cos 4x yz$   $f_{xyz} = 16yz\sin 4x yz$