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Genetics Packet

The answers to the following questions and problems should be neatly written on a separate paper (in order). Each definition is worth 1 point and each problem is worth 4 points.
100 Points Total

Vocabulary

- Chapter 11 Vocabulary – Sections 1, 2, 3, 5
- Chapter 14 Vocabulary – Sections 1 & 2

Genetics Problems

I. Monohybrid Crosses

- Directions For each problem:
- Give the genotype, phenotype, and type of genotype of F₁ and F₂.
 - Give the genotypic and phenotypic ratios of F₂.

A. Complete Dominance

- Cross a homozygous red-flowered plant with a white-flowered plant.
R = red flowers, r = white flowers
- Cross a homozygous brown-haired male with a homozygous blonde female.
B = brown hair, b = blonde hair
- Cross a homozygous blue-eyed male with a homozygous brown-eyed female.
E = brown eyes, e = blue eyes

B. Incomplete Dominance

- Cross a homozygous red-flowered plant with a white-flowered plant.
R = red flowers, r = white flowers
- Cross a blue-eyed male with a homozygous brown-eyed female.
E = brown eyes, e = blue eyes
- Cross a homozygous curly-haired male with a straight-haired female.
C = curly hair, c = straight hair

C. Codominance

- Cross a red petunia with a white petunia.
R = red flowers, W = white flowers

II. Dihybrid Crosses

- Directions For each problem:
- Give the genotype, phenotype, and type of genotype of F₁.
 - Give the genotype and phenotype of F₂.
 - Give the phenotypic ratio of F₂.

A. Complete Dominance

- Cross a green, wrinkled seed pea plant with a homozygous yellow, round seed pea plant. **Y = yellow seeds, y = green seeds, R = round seeds, r = wrinkled seeds**
- Cross a blond, blue-eyed male with a homozygous brown-haired, brown-eyed female. **E = brown eyes, e = blue eyes, B = brown hair, b = blond hair**
- Cross a short, non-freckled male with a homozygous tall, freckled female.
T = tall, t = short, F = freckled, f = non-freckled

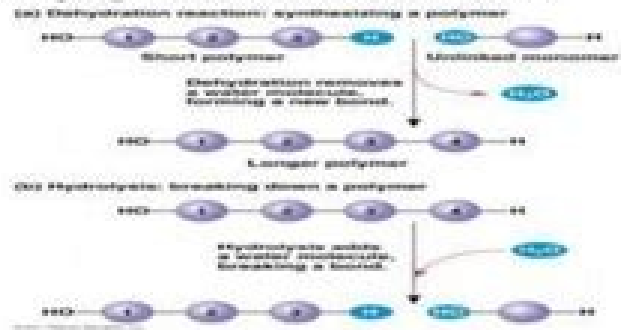
1. The most common elements in living things are carbon, hydrogen, nitrogen, and oxygen. These four elements constitute about 95% of your body weight. All compounds can be classified in two broad categories — organic and inorganic compounds. Organic compounds are all based on carbon. Carbon can form single bonds with another atom and also bond to other carbon molecules forming double and triple bonds. This allows carbon based molecules to form single and double rings, chains, and branching chains. Most organic compounds are built primarily of carbon, hydrogen, and oxygen but in different ratios. Each small organic molecule can be a unit of a large organic molecule called a macromolecule. If the small organic units are identical or form patterns they are called monomers, and the large organic molecule they form is called a polymer.

2. When monomers are joined together the reaction is called dehydration synthesis or condensation as water is produced when the monomers are bonded together. To break the polymers down again the reaction is called hydrolysis. Notice how water is used or produced in these two reactions shown to the right.

3. There are four classes of macromolecules: carbohydrates, lipids, proteins, and nucleic acids. Heterotrophs, like us, must get these biological macromolecules from our food which we break down into monomers through digestion. This makes the molecules small enough to cross cell membranes. Our cells use them either as energy sources or to build the carbohydrates, proteins, lipids, and nucleic acids that our body needs.

4. Questions:

- What atom makes up the backbone of biological macromolecules?
Carbon
- What kinds of shapes can carbon based molecules form:
single and double rings, chains, and branching chains.
- What are macromolecules?
a large organic molecule
- How are monomers related to polymers?
If the small organic units are identical or form patterns they are called monomers and the large organic molecule they form is called a polymer



Exercise 1

Hypothesis B: $\rightarrow$ ~~you made the max wider by adding by 4 so the % change will be more~~ ✓ ~~4%~~

Treatment	Beaker Label	Beaker Contents	Potato Initial Mass (g)	Potato Final Mass	Potato Percent Change	Comments
A-1	H ₂ O	water	28	21.8	5%	
A-2	7%	7% sugar	27.8	2.82	7.1%	
A-3	14%	14% sugar	1.63	1.53	-6.1%	
A-4	20%	20% sugar	2.43	2.73	+12.3%	
A-5	27%	27% sugar	2.23	1.93	-13.4%	
A-6 & B-1	35%	35% sugar	3.23	2.73	-15.6%	
B-2	35% +4	35% sugar	2.23	7.23	+11.1%	

Independent Variable	Dependent Variable	Control Variable
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Hypothesis A ~~Plastic~~ 2% of charge Salt solution ~~14~~

Hypothesis B ~~Plastic~~ 2% of charge Salt solution

[illegible]

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