

## ANALYSIS OF HAIR LAB

Purpose:

Materials:

Procedure:

Calculations and Data:

I. Scale pattern sketches: Determine the scale pattern of each sample and make a sketch

Sample 1

\_\_\_\_\_

Pattern \_\_\_\_\_

Sketch: \_\_\_\_\_

Sample 2

\_\_\_\_\_

Pattern \_\_\_\_\_

Sketch: \_\_\_\_\_

Sample 3

\_\_\_\_\_

Pattern \_\_\_\_\_

Sketch: \_\_\_\_\_

II. Medulla sketches: Which type of medulla is present? (continuous etc) Is it uniserial or multiserial? Draw a sketch for each sample

Sample 1

\_\_\_\_\_

Pattern \_\_\_\_\_

Sketch: \_\_\_\_\_

Sample 2

\_\_\_\_\_

Pattern \_\_\_\_\_

Sketch: \_\_\_\_\_

Sample 3

\_\_\_\_\_

Pattern \_\_\_\_\_

Sketch: \_\_\_\_\_

III. Root type: Is it spade, club, frayed etc? Make a sketch.

Sample 1

\_\_\_\_\_

Pattern \_\_\_\_\_

Sketch:

Sample 2

\_\_\_\_\_

Pattern \_\_\_\_\_

Sketch:

Sample 3

\_\_\_\_\_

Pattern \_\_\_\_\_

Sketch:

IV. Fun time: Choose two other samples of hair i.e. another color, texture, from another animal, forcibly removed etc. Sketch these 2 samples and give a brief description of them.

Fun sample 1

Sketch

Description

Fun sample 2

Sketch

Description

Conclusions and Questions:

1. What are the three main parts of a piece of hair? What are the three main parts of the shaft?
2. Hair is usually class evidence. How can it become more individualistic?
3. What two parts of a piece of hair give it its color? Explain?
4. How do you calculate the medullary index of hair? How is an animal's index different from a human's index?
5. Can serologists extract DNA from every pieces of hair evidence? Explain.
6. How can the medulla help the hair expert determine race?
7. How are the medulla, scale, and root of a cat hair different than that of a human hair?

Final Summary: