### **Analysis of Hair – Mini-lab**

**You do NOT need to write a full lab report. You only have to turn in these pages.**

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

Sample 1 Sample 2 Sample 3

\_\_\_\_**Dog\_\_\_\_\_\_\_\_\_\_ \_\_\_Cat\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_Human\_\_\_\_\_\_\_**

### Pattern \_\_\_\_\_\_\_\_\_ Pattern \_\_\_\_\_\_\_\_\_ Pattern \_\_\_\_\_\_\_\_\_

Sketch: Sketch: Sketch:

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

Sample 1 Sample 2 Sample 3

**\_\_\_\_\_Dog\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_Cat\_\_\_\_\_\_ \_\_\_\_\_\_\_\_Human\_\_\_**

### Pattern \_\_\_\_\_\_\_\_\_ Pattern \_\_\_\_\_\_\_\_\_ Pattern \_\_\_\_\_\_\_\_\_

 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Sketch: Sketch: Sketch:

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

Sample 1 Sample 2 Sample 3

\_\_\_\_\_\_\_**Dog\_\_\_\_\_\_ \_\_\_\_\_\_\_Cat\_\_\_\_\_ \_\_\_\_\_\_Human\_\_\_\_\_\_\_**

### Pattern \_\_\_\_\_\_\_\_\_ Pattern \_\_\_\_\_\_\_\_\_ Pattern \_\_\_\_\_\_\_\_\_

Sketch: Sketch: Sketch:

1. 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

Lab Questions:

1. Hair is usually class evidence. How can it become more individualistic?
2. What two parts of a piece of hair give it its color? Explain?
3. How do you calculate the medullary index of hair? How is an animal’s index different from a human’s index?
4. Can serologists extract DNA from every pieces of hair evidence? Explain.
5. How can the medulla help the hair expert determine race?