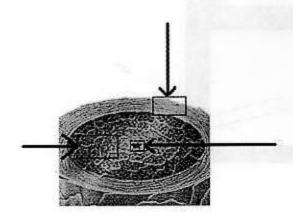
School Name:	nelin and the selection	School Number:

Supplemental Questions (20pts)

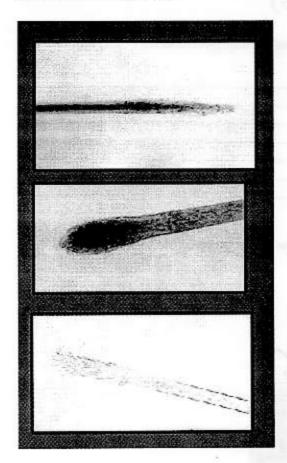
1.)	In terms of crime scene investigations, what is luminol useful for?	Explain the
	chemistry of how luminol works.	

Label the correct parts of a hair shaft below using three of the following terms:
 a.) Medulla
 b.) Cuticle
 c.) Follicle
 d.) Cortex
 e.) Dermal papilla



School Number:	
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3.) The roots of a hair sample are very distinguishing between human, dog, and cat. Label each of the following pictures of hair roots as either human, dog, or cat. Each choice will be used once.



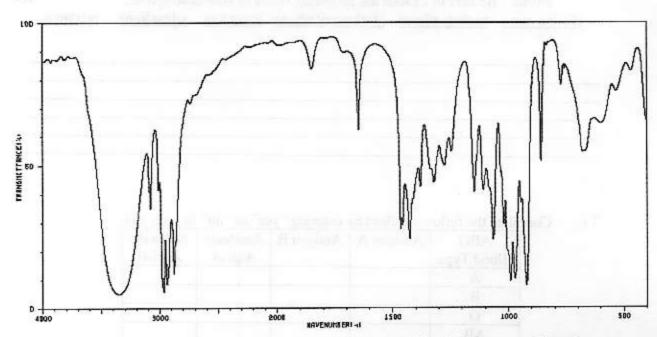
4.) What is the most common blood type?

What is the least common blood type?

5.) Which of the following is the "resting phase" for hair growth, during which if a hair is pulled out, it will reveal a solid, dry, white material at the root?

 a.) Catagen
 b.) Anagen
 c.) Telogen

Complete the following chart by entering "yes" or "no" in each box. ABO Antigen A Antigen B Antibody Antibody Blood Type Anit-A Anti-B B O		n time mobile p	nasc static	mary phase	mert gas	adsorbant	mixtur
ABO Antigen A Antigen B Antibody Antibody Blood Type Anti-A Anti-B A B	-						
ABO Antigen A Antigen B Antibody Antibody Blood Type Anit-A Anti-B B B				_		_	
ABO Antigen A Antigen B Antibody Antibody Blood Type Anit-A Anti-B B B							
ABO Antigen A Antigen B Antibody Antibody Blood Type Anit-A Anti-B B B							_
ABO Antigen A Antigen B Antibody Antibody Blood Type Anit-A Anti-B B B							
ABO Antigen A Antigen B Antibody Antibody Blood Type Anit-A Anti-B B B							
Blood Type Anit-A Anti-B A B	C						
A B		SSASS MASSING	Antigen A	Antigen B	Control of the second s		
В					Anit-A	Anti-B	
		1000					
AB							
Service and the service of the servi		1110		-		Water and	
			blished link	between the	ingerprint p	batterns of a c	iniid and i
a.) There is no established link between the fingerprint patterns of a child a	0	their parents.					
a.) There is no established link between the fingerprint patterns of a child a of their parents.		.) There is no kno	wn method o	of determinin	g the age of	a latent print	i
					1016	ounding it ma	240 99



Which of the following molecules could be represented by the IR spectra above?

In the IR spectra, circle the three most important signals and label what type of chemical bond they come from.



Identify the type of fingerprint seen above.

If possible, circle and identify each of the following characteristics that can be found on the above print. (Some may not be included on this print.)

Ridge ending

Bifurcation

Island

Ridge dot

Core

Delta

What is the ridge count of the above print?

School Number: _____

Is PETE an addition or condensation polymer?

True or false: The difference between HDPE and LDPE is in the amount of crosslinking between the polymer chains.

12.) From the following list of polymers, circle those which are thermoplastics.

PETE PVC
PS PP
PC LDPE
PMMA HDPE

Draw the monomer(s) of PETE below.

11.)