Forensic Science Spring Final 2017

Name _____

Introduction to Forensic Science: History and Cases

- 1. forensis
- 2. Miranda rights
- 3. MMO
- 4. Frye Standard
- 5. Daubert Ruling
- 6. Direct evidence
- 7. Circumstantial evidence

Crime Scene Investigation/Evidence/Photography

- 1. 4th amendment
- 2. 7 S's of crime scene investigation
- 3. Photograph ranges at a crime scene
- 4. Search patterns
- 5. Questioned samples vs known samples
- 6. Lighting in forensic photography

<u>Evidence</u>

- 1. Transient evidence
- 2. Conditional evidence
- 3. Pattern evidence
- 4. Associative evidence

Fingerprints

- 1. Fingerprints as class evidence
- 2. Fingerprints as individual evidence
- 3. Latent prints
- 4. Patent prints
- 5. Galton details or minutae
- 6. Classifications of prints
- 7. Principle of permanence
- 8. Principle of uniqueness
- 9. Fill the table:

Method	What does it react with?	Development color

Powder (dust)	Physical (no reaction)				
Ninhydrin					
Silver nitrate					
Cyanoacrylate					

Hairs and Fibers

- 1. Natural fibers
- 2. Animal fibers
- 3. Plant fibers
- 4. Synthetic fibers
- 5. Fibers as class evidence
- 6. Fibers as individual evidence

<u>Blood</u>

- 1. Homozygous
- 2. Heterozygous
- 3. Genotype
- 4. Phenotype
- 5. Components of blood
- 6. If a person is A+, what is the percent of the US population that has this blood type? (A=42%, Rh=85%).
- 7. Blood as class evidence
- 8. Blood as individual evidence
- 9. Scalloping/spiking of blood drops
- 10. Satellite droplets
- 11. Cast-off pattern
- 12. Skeletonization
- 13. Angle of impact for blood drops
- 14. Blood trails
- 15. Blood pools

DNA

- 1. DNA Extraction
- 2. PCR (steps)
- 3. Gel Electrophoresis
- 4. Probes
- 5. DNA profiling uses

Bio-Recovery

- 1. PPE and examples
- 2. Shapes and names of shapes of bacteria
- 3. Type of microbes
- 4. When to take pictures and why
- 5. How to clean basic areas of a house (steps and chemicals)
- 6. How to deodorize
- 7. Forms of written documentation and why used
- 8. Forms of photographic documentation and why used

Death Investigations

- 1. Blunt force trauma
- 2. Abrasions
- 3. Contusions
- 4. Lacerations
- 5. Sharp force trauma
- 6. Stab/puncture wounds
- 7. Incision/cut wounds
- 8. Chop wounds
- 9. Severity of injury depends on what circumstances
- 10. Avulsions
- 11. Perforation
- 12. Penetration
- 13. Mongolian spots on babies
- 14. Periorbital ecchymosis
- 15. Senile pupura
- 16. Deaths that require an autopsy
- 17. Toxicology
- 18. Histology

- 19. Serology
- 20. Neuropathology
- 21. Rigor mortis
- 22. Livor mortis
- 23. Algor mortis
- 24. Give the time ranges and condition of the body seen for the following:

Mortis	0-2	3-15	16-36	36+
Rigor				
Livor				

- 25. Post-Mortem Interval
- 26. Steps of a death scene investigation (Including at coroner's office)
- 27. Parts of a coroner's/medical examiner's report (Autopsy report)
- 28. Evidence collected at death scene investigation
- 29. Evidence collected at Internal examination
- 30. Evidence collected at External examination
- 31. Animal uses

*Articles you read in class