## Forensic Science Unit 1 Review: Intro to Forensic Science and History; Laws in Forensic Science

## Intro

- 1. What is Forensic Science?
- 2. Criminalistics vs. Criminology
- 3. Know the contributions of each to the history of Forensic Science:
  - a. Calvin Goddard
  - b. Francis Galton
  - c. Mathieu Orfila
  - d. William Herschel
  - e. Alphonse Bertillon
  - f. Henry Faulds
  - g. Sherlock Holmes and Sir Arthur Conan Doyle
  - h. Locard
  - i. Karl Landsteiner
  - j. Sir Alex Jeffrys
  - k. Leone Lattes
  - l. Yi Yu Ji
- 4. Why did anthropometry fail? What was it replaced with?
- 5. How and why is the scientific method used in Forensic Science?
- 6. Know how to apply Locard's Exchange Principle
- 7. What is the CSI effect?
- 8. What types of evidence do the crime labs at the DEA, ATF, USPS, FBI examine? Do they specialize?
- 9. Know the responsibilities (types of evidence they study) of the different Forensic units: Physical Science, Biology, Firearms, Questioned Document, Photography, Toxicology, Latent Fingerprint, Polygraph Unit, Voice Print, CSI, Forensic psychiatry, odontology, entomology, pathology, engineering, anthropology and computer/digital analysis.

## Laws

- 10. What is the constitution?
- 11. What is the difference between civil and criminal laws? Who are the plaintiff and defendant in a criminal case?
- 12. What are administrative, equity, statutory, and common laws?
- 13. What is double jeopardy?
- 14. What is preponderance of evidence vs beyond a reasonable doubt?
- 15. What happened in *Miranda v Arizona* and what was the impact on Forensic Science? What amendments were involved?
- 16. Why do Forensic Scientists even need to know about laws?
- 17. What is the difference between a felony and misdemeanor?
- 18. What is an inchoate offense?
- 19. What occurs during an arraignment?
- 20. What different pleas can be entered?
- 21. What are the facets of guilt? (MMO)
- 22. What is an expert witness? How do they different from a lay witness?
- 23. What does it mean when something is **probative? Material?**
- 24. How did the Frye Standard affect admissibility of evidence?
- 25. How did the Daubert Ruling affect admissibility of evidence?
- 26. How did the Kumo Tire v Carmichael affect admissibility of evidence?
- 27. How did the *Copollino v State* affect admissibility of evidence?

- 28. What are the three elements needed in order for something to be ruled a crime (and thus, something that is prosecutable?
- 29. Who is the prosecutor/prosecution? Who is the defendant/defense?
- 30. What is probable cause?