**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**FORENSICS Unit study guide**

1. **Forensics:** *means \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
2. **Define the following:**
3. **Forensic Pathology:** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ The ME or coroner would seek to answer:*
   1. *Who was the victim?*
   2. *What injuries were present?*
   3. *How were they produced?*
   4. *When did they occur?*
4. **Forensic Anthropology:** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
5. **Forensic Odontology:** *­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_when there is nothing else recognizable. Teeth have \_\_\_\_\_\_\_\_\_\_\_\_ making them more resistant than bones in fires. Most people have documented \_\_\_\_\_\_\_\_\_\_\_\_\_\_ records that can be pulled. The odontologist can also do a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ analysis.*
6. **Forensic Entomology:** *can identify \_\_\_\_\_\_\_\_\_\_ since death by studying the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of human remains. Larvae of maggots consume human organs. They can estimate the post mortem time based on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.*
7. **Forensic Psychiatry:** *determines whether someone is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to stand trial.*
8. **What is the role of the Coroner?** *To determine the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of death. This is an \_\_\_\_\_\_\_\_\_\_\_\_\_ position. May need to call on the assistance of the others listed above. He may elect to do an \_\_\_\_\_\_\_\_\_\_\_ if the circumstances surrounding the death incident are not apparent. The coroner is responsible for \_\_\_\_\_\_\_\_\_\_\_\_\_\_ the death certificate.*
9. **How the following are used in Forensic Serology?**
10. **Kastle-meyer test:** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*.
11. **Mitochondrial DNA:** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
12. **Serology:** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
13. **Precipitin test \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
    1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
14. **Blood typing:** *serum is important because it contains proteins known as \_\_\_\_\_\_\_\_\_\_\_. The fundamental principle of blood typing is that for every antigen there exists \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The serum –containing antibody is referred to as the antiserum, meaning a serum that reacts against something (antigen). The various serum blood types are specific to their own antigen and could cause fatal reaction (except for type O) if given the wrong type blood. The four blood types are:*
    1. *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
    2. *A blood stain match is considered \_\_\_\_\_\_\_\_\_\_\_ proof*
15. **Rh factor:** *(Rhesus disease factor): 85% of the pop are +. Rh- is rarer.*
16. **Barr bodies***: Inactive Sex chromosome. It is only found \_\_\_\_\_\_\_\_\_\_\_\_\_\_. It is helpful in determining the sex of the blood stain.*
17. **Finger printing tests give us information:**
18. **How many chromosomes are there***? \_\_\_\_\_\_\_\_\_\_\_\_\_\_*
19. **How many pairs are there***? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
20. **What are the four chemicals in the DNA code?**
    1. *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
    2. *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
    3. *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
    4. *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
21. **What does DNA stand for?** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
22. **How are the following used in forensic Odontology?**
23. **Odontogram \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
24. **Bite mark analysis***: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
25. **What about the teeth are most useful in post mortem ID?** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
26. **What is the primary role of the odontologist in for forensics?** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
27. **How are the following used in forensic Anthropology?**
28. **Long bones help determine** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
29. **Skull and pelvis help identify** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
30. **What is the role of the anthropologist in forensics?** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
31. **When is an autopsy indicated? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
32. **Who is ultimately responsible for determining “time and manner” of death?** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
33. **Who signs the death certificate? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
34. **For what kind of autopsy is consent needed?** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
35. **What is lividity and when is it visible?** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Any tight clothing will \_\_\_\_\_\_\_\_ discolor. It is visible within \_\_\_\_\_\_\_\_\_\_\_minutes and within \_\_\_\_\_\_\_\_\_\_\_ hours, it becomes permanent.*
36. **What is rigor mortis?** *Occurs within \_\_\_\_\_\_\_ hours and disappears within \_\_\_\_\_\_\_ hours. It gives an indication of how long ago the person died.*
37. **What is Algor mortis?** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Obesity and warm environments \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the cooling.*