

Name: \_\_\_\_\_ Period \_\_\_\_\_

### Forensic Databases Directions:

Dramatic enhancements of the role of forensic science in criminal investigation has come about through the creation of computerized databases that not only link all 50 states, but tie together police agencies throughout the world. Answer the following questions using the links provided.

THIS IS A LAB GRADE!!!!!! Make sure you work on the assignment carefully and put some real thought into it.

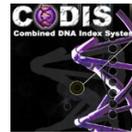
#### I. FBI Databases:



##### A. IAFIS: **Integrated Automated Fingerprint Identification System**

[http://www.fbi.gov/about-us/cjis/fingerprints\\_biometrics/iafis/iafis](http://www.fbi.gov/about-us/cjis/fingerprints_biometrics/iafis/iafis)

1. What is included in IAFIS?
2. How large is the database and how fast does it take to do a search? Does a television show like CSI or Police show dramatize how fast the search can be done?
3. How many 10 print fingerprint submissions have gone into the database so far this year since January 1<sup>st</sup>?
4. What is a latent fingerprint?



##### B. CODIS: **Combined DNA Index System**

<http://www.fbi.gov/about-us/lab/codis/codis>

5. What is the mission of CODIS?
6. What DNA information is stored in these databases?
7. What precautions are taken for safeguarding the information in these DNA databases and can you access the database from a home computer?
8. What are the five 2011 NDIS (CODIS) statistics for California.
9. What are the other three states, besides California, that have over 10,000 investigations aided by the use of the CODIS database as of August 2011?



##### C. NDIS: **The National DNA Index System**

10. What is the mission of NDIS?
11. What is the difference between the CODIS and NDIS?
12. Which forensic labs can put their DNA records into the database?
13. How many locations (loci) on a person's DNA (genome) looked at and submitted into the database?



II. ATF: Bureau of Alcohol, Tobacco, Firearms, and Explosives:

<http://www.atf.gov/>

A. NIBIN: **National Integrated Ballistics Information Network**

14. What is the mission of NIBIN?

<http://www.nibin.gov/>



B. IBIS: **Integrated Ballistics Identification System**

15. How is IBIS different from the NIBIN? What does IBIS do for NIBIN? (This is listed in the NIBIN mission statement)



III. RCMP: Forensic Laboratory Services of the Royal Canadian Mounted Police

A. PDQ: **International Forensic Automotive Paint Data Query**

<http://www.rcmp-grc.gc.ca/fs-fd/pdfs/pdq-eng.pdf>

16. What is the mission of PDQ?

17. How does PDQ work?

IV. Commercially Available



A. SICAR: **Shoeprint image capture and retrieval**

On a computer use this link:

[http://www.fosterfreeman.com/index.php?option=com\\_content&view=category&id=2:shoe-print-identification&Itemid=20](http://www.fosterfreeman.com/index.php?option=com_content&view=category&id=2:shoe-print-identification&Itemid=20)

On the iPad use this link:

<http://79.170.40.44/fosterfreemanmobile.com/index.php/products/shoe-print-examination/20-sicar-6>

18. What is the goal of SICAR?

V. Other Databases:

<http://www.nij.gov/journals/258/forensic-databases.html>

19. Name at least five other databases that can be used on forensic evidence.

- VI. National Government - DNA Initiative: [www.dna.gov](http://www.dna.gov)
20. What are the six goals of the DNA Initiative of the US Government? (Search under “about us” at the top right hand corner of this website.)
  21. Name three types of DNA testing that can be done and comment on the crime labs that can conduct each of these DNA tests? (Search under Forensic laboratories)
  22. Name two reasons why there is a backlog in processing DNA samples and what are the labs doing to try to get these samples processed? (Search under Forensic laboratories)
  23. In 2011, how much money will the US Government give to both the California Department of Justice and the Orange County Sherriff Coroner Department to help with the DNA backlog to analyze more forensic DNA samples and what webpage at the [www.dna.gov](http://www.dna.gov) did you find this answer?
  24. What is the total funding for all States in 2011 to help catch up with the DNA analysis backlog and do you think this is a good use of that money and why or why not?
  25. Name 7 areas that the US Government gives grant funding under the DNA initiative and describe one of these areas.