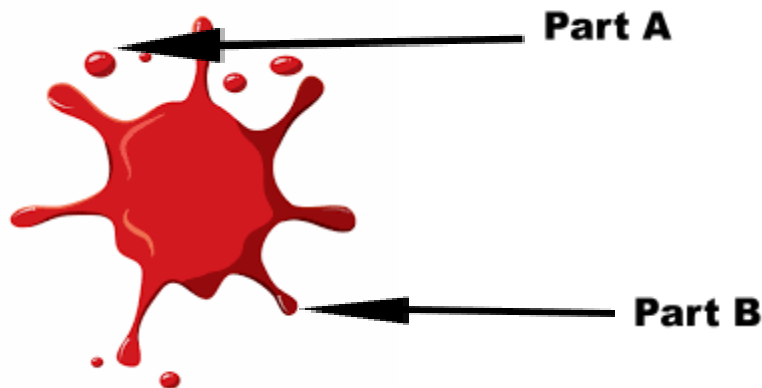


Serology and Blood Pattern Review Questions (64 points)

Instructions: Read Chapter 13 and answer the questions below in complete sentences (remember to spell check your assignment). You must also include the page number of where you found the answer in the reading to receive credit.

- (4 pts.) 1. What are the two major components of blood?
- (4 pts.) 2. What parts of blood are forensically important for typing?
- (8 pts.) 3. Name two preliminary and two confirmatory tests for blood.
- (2 pts.) 4. What is the most common test for identifying saliva?
- (2 pts.) 5. What is the only test that is absolutely confirmatory for semen?
- (4 pts.) 6. Describe briefly how a blood sample is determined to be human. (Include how the antiserum is made.)
- (2 pts.) 7. Give an example of a type of spatter bloodstain.
- (2 pts.) 8. Give an example of a type of altered bloodstain.
- (2 pts.) 9. Give an example of a type of passive bloodstain.
- (2 pts.) 10. What is a cast-off blood spatter?
- (4 pts.) 11. What is the difference between a wipe bloodstain pattern and a swipe pattern?
- (4 pts.) 12. What are the parts labeled A and B in the graphic below?



(2 pts.) 13. Describe how the parts in question 13 can be produced.

(10 pts.) 14. Below are listed the width and length measurements for 5 different blood stains dropped at various angles. For each labeled stain, find the impact angle, using the formula from the Chapter.

Stain A: 4.5 mm in width and 15.5 mm in length =

Stain B: 9 mm in width and 12.5 mm in length =

Stain C: 6.25 mm in width and 16 mm in length =

Stain D: 9.5 mm in width and 11 mm in length =

Stain E: 7.75 mm in width and 12.25 mm in length =

Multiple Choice: Please choose the most correct answer to the questions below.

(2 pts.) 15. The person responsible for ABO blood typing was:

- | | |
|---------------------|------------------|
| a. Karl Landsteiner | c. Paul Kirk |
| b. Henry MacDonell | e. Gregor Mendel |

(2 pts.) 16. A person with O- type blood can give blood to:

- | | |
|--------------------------------|--|
| a. a person with O type blood. | c. a person with A type blood. |
| b. a person with B type blood. | d. a person with any other blood type. |

(2 pts.) 17. A person with O+ blood can receive blood from :

- | | |
|--------------------------------|---------------------------------|
| a. a person with O type blood. | c. a person with A type blood. |
| b. a person with B type blood. | d. a person with AB type blood. |

(2 pts.) 18. Type A blood contains _____ antibodies.

- | | |
|------|-------|
| a. A | c. AB |
| b. B | d. No |

(2 pts.) 19. What is the most common blood type?

- | | |
|------|-------|
| a. A | c. O |
| b. B | d. AB |

(2 pts.) 20. What is the least common blood type?

- | | |
|------|-------|
| a. A | c. O |
| b. B | d. AB |