**Blood Basics Quiz**

Name __________________________

**Part A: Match each term to its best definition.**

1. Most abundant cells in our body that are produced in the bone marrow
   - **Answer:** L. Red blood cells

2. Protein found in red blood cells that carries oxygen
   - **Answer:** D. Hemoglobin

3. Component of blood that is part of our immune system and destroy pathogens in our body
   - **Answer:** U. White blood cells

4. Yellowish liquid part of the blood
   - **Answer:** H. Plasma

5. Clotting factors in our the plasma that clot together to prevent blood loss from a wound
   - **Answer:** J. Projected

6. Our blood type is determined by these, which are inherited from our parents
   - **Answer:** C. Genes

7. Blood type that contains A agglutinogens
   - **Answer:** Q. Type A

8. Blood type that contains B agglutinogens
   - **Answer:** S. Type B

9. Blood type that contains both A and B agglutinogens
   - **Answer:** R. Type AB

10. Blood type that does not contain A or B agglutinogens
    - **Answer:** T. Type O

11. Indicates the presence of a specific protein; discovered while studying Rhesus monkeys
    - **Answer:** F. Luminol

12. People with Type AB blood are called universal ____, because they can receive blood from anyone.
    - **Answer:** K. Receivers

13. People with Type O blood are called universal ____, because they can give blood to anyone.
    - **Answer:** B. Donors

14. Stands for bloodstain pattern analysis
    - **Answer:** A. BPA

15. Patterns created when a bloody object comes in contact with another surface; also called contact patterns
    - **Answer:** N. Spatter

16. Bloodstains created by the application of force to the area where the blood originated
    - **Answer:** P. Transfer

17. Pointed edges of a droplet that radiate out from the spatter and can help to determine the direction of force
    - **Answer:** O. Spines

18. Type of blood stain created by the force of gravity an appears as drops or blood pools
    - **Answer:** G. Passive

19. Type of bloodstain that is created when a force is applied to the source of the blood, such as cast-off, impact spatters, and arterial spurting
    - **Answer:** E. LCV

20. Used by investigators to detect the presence of blood
    - **Answer:** I. Platelets

21. Test used at a crime scene to enhance a bloodstain to make it more visible in photographs
    - **Answer:** M. Rh factor
Part B: Blood Typing & Transfusions

22. Identify the blood type of each sample given the test results.  

\[ + = \text{Clumping} \quad - = \text{No clumping} \]

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<tr>
<th>Suspect 1:</th>
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<th>Suspect 3:</th>
<th>Suspect 4:</th>
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Blood Type: ___  Blood Type: ___  Blood Type: ___  Blood Type: ___

23. If Suspect 1 were injured during the crime and needed blood, what blood types could he receive? _____  _____

24. If Suspect 4 volunteered to donate blood, which blood types could receive his blood? _____  _____

Part C: Blood Spatter

25. Which of the three blood droplets shown would have been created by a wound in the lower part of the leg? Explain.

26. If you found a blood droplet as shown below at a crime scene, what does it tell you? Explain

27. If you find a trail of blood with droplets that are very close together, what could this mean?