

Name \_\_\_\_\_ # \_\_\_\_\_ Pts. \_\_\_\_/17

## HEMOSTASIS

Using the key choices, correctly complete the following description of the blood clotting process. Insert the term and the letter in the answer blanks.

KEY CHOICES:      A. Break                      D. Fibrinogen              G. Serotonin  
                                 B. Erythrocytes              E. Platelets                H. Thrombin  
                                 C. Fibrin                        F. Prothrombin            I. Thromboplastin

Clotting begins when a \_\_ (1) \_\_ occurs in a blood vessel wall. Almost immediately, \_\_ (2) \_\_ cling to the blood vessel wall and release \_\_ (3) \_\_, which helps to decrease blood loss by constricting the vessel. \_\_ (4) \_\_ is also released by damaged cells in the area. This chemical substance causes \_\_ (5) \_\_ to be converted to \_\_ (6) \_\_. Once present, thrombin acts as an enzyme to attach \_\_ (7) \_\_ molecules together to form long, threadlike strands of \_\_ (8) \_\_, which then traps \_\_ (9) \_\_ flowing by in the blood.

- |          |          |          |
|----------|----------|----------|
| 1. _____ | 4. _____ | 7. _____ |
| 2. _____ | 5. _____ | 8. _____ |
| 3. _____ | 6. _____ | 9. _____ |

For each true statement, write T. If any statements are false, correct the underlined term by inserting the correction in the answer blank.

- \_\_\_\_\_ Normally, blood clots within 5 – 10 minutes.
- \_\_\_\_\_ The most important natural body anticoagulant is histamine.
- \_\_\_\_\_ Hemostasis means stoppage of blood flow.
- \_\_\_\_\_ An abnormally low number of platelets is a condition known as thrombopenia.
- \_\_\_\_\_ An embolus occurs when a blood clot in an unbroken blood vessel releases and flows freely in the bloodstream.
- \_\_\_\_\_ Erythropoietin is a hormone that is controlled by the lungs to register the oxygen levels in the blood.
- \_\_\_\_\_ The “clotting cascade” is triggered by the release of Sodium which initiates the coagulation phase of hemostasis.
- \_\_\_\_\_ Hemophilia is called the “Bleeder’s Disease.”