LAB MANUAL: 10th Edition

LABORATORY EXERCISE 38
BLOOD CELLS

WARNING

Because of the possibility of blood-borne infections being transmitted from one student to another if blood slides are prepared in the classroom, it is suggested that commercially prepared blood slides be used in this exercise. The instructor, however, may wish to demonstrate the procedure for preparing such a slide.

Laboratory Report Answers

PART A

1. erythrocytes
2. biconcave
3. transporting and exchanging gases
4. hemoglobin
5. oxyhemoglobin
6. nuclei
7. leukocytes
8. granulocytes
9. agranulocytes
10. neutrophil
11. neutrophils
12. eosinophils
13. basophils
14. monocytes
15. lymphocytes
16. hemocytoblasts or megakaryocytes
17. collagen
18. serotonin

PART B

(sketches)

PART C

1. (experimental results)
2. Answers will vary.

Critical Thinking Application Answer

A total white blood cell count provides the number of white blood cells in a given volume of blood; a differential white blood cell count gives the relative percentages of types of white blood cells in a blood sample.