

## English II - Medical Technology

Professor: Angel Santos

Total: 60 points

|                       |           |
|-----------------------|-----------|
| Student's name: _____ | ID: _____ |
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**General Instructions:** Read every item carefully. Use the clinical laboratory terminology studied in class. Answer in English. Specimen Collection and Handling is NOT included in this test.

**SECTION I - Clinical Laboratory Terminology: Match the Meaning (10 points)**

Match each description in Column A with the best term from Column B. Each answer is used once. (1 point each)

| Column A - Laboratory Description                                                         | Column B - Terms    |
|-------------------------------------------------------------------------------------------|---------------------|
| 1. A urine examination reports red blood cells where they should not normally be present. | A. Thrombocytopenia |
| 2. A blood analysis indicates an increased red blood cell count.                          | B. Viremia          |
| 3. A urine test detects sugar in the sample.                                              | C. Proteinuria      |
| 4. A bloodstream test detects fungal organisms.                                           | D. Erythrocytosis   |
| 5. A complete blood count shows fewer platelets than the reference interval.              | E. Bacteriuria      |
| 6. A urine examination detects protein.                                                   | F. Hypoglycemia     |
| 7. A bloodstream test detects a virus.                                                    | G. Hematuria        |
| 8. A complete blood count reports an elevated white blood cell count.                     | H. Fungemia         |
| 9. A blood glucose measurement is lower than the reference interval.                      | I. Leukocytosis     |
| 10. A urine examination detects bacteria.                                                 | J. Glucosuria       |

## SECTION II - Medical Word Parts in Context (10 points)

Choose the best answer. (2 points each)

11. A report uses the term thrombocytopenia. Which word part gives the strongest clue that the platelet count is decreased?

- ☐ A. thromb-
- ☐ B. -cyto-
- ☐ C. -penia
- ☐ D. -emia

12. A technologist sees the term erythrocytosis. In this term, what does the ending -cytosis help indicate?

- ☐ A. An increased cell count
- ☐ B. A urine finding
- ☐ C. A low glucose value
- ☐ D. A microorganism in blood

13. Which interpretation best uses the prefix in hypoglycemia?

- ☐ A. Glucose is detected in urine.
- ☐ B. Blood glucose is low.
- ☐ C. Blood glucose is high.
- ☐ D. Bacteria are present in blood.

14. Two terms end in -emia: viremia and fungemia. What information does this ending contribute in these terms?

- ☐ A. The finding involves urine.
- ☐ B. The condition involves the blood.
- ☐ C. The cell count is decreased.
- ☐ D. The cell count is increased.

15. Which pair contains terms whose word parts indicate opposite directions?

- ☐ A. Bacteremia / viremia
- ☐ B. Proteinuria / hematuria
- ☐ C. Hyperglycemia / hypoglycemia
- ☐ D. Glucosuria / ketonuria

### SECTION III - Decode and Build the Correct Term (10 points)

Use the clues to select or write the correct laboratory term. (2 points each)

16. A CBC shows an increased platelet count. Which term best communicates this finding?

- ☐ A. Thrombocytopenia
- ☐ B. Thrombocytosis
- ☐ C. Leukocytosis
- ☐ D. Erythrocytosis

17. A blood test confirms fungal organisms circulating in the bloodstream. Which term should appear in the report?

- ☐ A. Fungemia
- ☐ B. Bacteriuria
- ☐ C. Ketonuria
- ☐ D. Hematuria

18. A urine report is positive for ketones but negative for glucose. Which single term describes the positive finding?

- ☐ A. Glucosuria
- ☐ B. Ketonuria
- ☐ C. Hyperglycemia
- ☐ D. Proteinuria

19. Complete the term: A decreased white blood cell count is called \_\_\_\_\_.

20. Complete the term: Blood glucose above the reference interval is called \_\_\_\_\_.

### SECTION IV - Interpret New Laboratory Findings (15 points)

Analyze each new report. Select the option that correctly interprets ALL of the information shown. (3 points each)

#### 21. REPORT A

**Urine protein: Positive**

**Urine bacteria: Negative**

**Urine blood: Positive**

- ☐ A. Proteinuria and hematuria
- ☐ B. Bacteriuria and hematuria
- ☐ C. Proteinuria and bacteriuria
- ☐ D. Glucosuria and hematuria

## 22. REPORT B

**WBC count: Above reference interval**

**RBC count: Above reference interval**

**Platelet count: Within reference interval**

- ☐ A. Leukopenia and erythrocytosis
- ☐ B. Leukocytosis and erythrocytosis
- ☐ C. Leukocytosis and thrombocytosis
- ☐ D. Erythrocytosis and thrombocytopenia

## 23. REPORT C

**Blood glucose: Below reference interval**

**Urine glucose: Negative**

**Urine ketones: Positive**

- ☐ A. Hyperglycemia and glucosuria
- ☐ B. Hypoglycemia and ketonuria
- ☐ C. Hypoglycemia and glucosuria
- ☐ D. Hyperglycemia and ketonuria

## 24. REPORT D

**Blood microorganism test:**

**Bacteria: Negative**

**Virus: Negative**

**Fungi: Detected**

- ☐ A. Bacteremia
- ☐ B. Viremia
- ☐ C. Fungemia
- ☐ D. Bacteriuria

## 25. REPORT E

**WBC count: Within reference interval**

**Platelet count: Below reference interval**

**Urine protein: Positive**

- ☐ A. Leukopenia and proteinuria
- ☐ B. Thrombocytopenia and proteinuria
- ☐ C. Thrombocytosis and hematuria
- ☐ D. Leukocytosis and glucosuria

## SECTION V - Laboratory Report Challenge: Analyze and Explain (15 points)

Read the laboratory report carefully. Apply the terminology studied in class. This is a NEW case. (15 points total)

| Laboratory Finding       | Result                   |
|--------------------------|--------------------------|
| Blood glucose            | Above reference interval |
| RBC count                | Above reference interval |
| Platelet count           | Below reference interval |
| Urine glucose            | Positive                 |
| Urine blood              | Negative                 |
| Blood microorganism test | Virus detected           |

26. Identify the term for the blood glucose finding. (2 pts)

Answer: \_\_\_\_\_

27. Identify the term for the red blood cell finding. (2 pts)

Answer: \_\_\_\_\_

28. Identify the term for the platelet finding. (2 pts)

Answer: \_\_\_\_\_

29. Identify the term for the positive urine finding. (2 pts)

Answer: \_\_\_\_\_

30. Identify the term for the microorganism detected in the blood. (2 pts)

Answer: \_\_\_\_\_

31. Explain the complete report in simple, professional English. Use at least FOUR correct laboratory terms. (5 points)

**Before submitting: Check your terminology, spelling, and whether each term refers to BLOOD, URINE, or a CELL COUNT.**