



# ASCP-MLT<sup>Q&As</sup>

MEDICAL LABORATORY TECHNICIAN - MLT(ASCP)

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### QUESTION 1

The MCV is indicative of microcytosis with  $MCV=100$  fL, this would be indicative of macrocytosis. An RDW that was outside of normal limits would be indicative of a heterogenous cell population.

An 18 year old female has a CBC as part of a routine physical exam. The following results were obtained and the physician determines she is anemic. After reviewing her CBC results shown below, which of the following would be an appropriate description of the anemia?

White blood cells (WBC):  $5.6 \times 10^9/L$  (RR:  $4.0-10.0 \times 10^9/L$ )

Red blood cells (RBC):  $3.7 \times 10^{12}/L$  (RR:  $4.2-5.9 \times 10^{12}/L$ )

Hemoglobin: 9.9 g/dL (RR: 12-16 g/dL)

Hematocrit: 28% (RR: 37-48%)

MCV: 75 fL (80-100 fL)

RDW-CV: 14% (RR: 11.0-15.0%)

- A. Macrocytic, heterogenous
- B. Macrocytic, homogenous
- C. Microcytic, heterogenous
- D. Microcytic, homogenous

Correct Answer: D

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### QUESTION 2

Since hemoglobin is measured spectrophotometrically on hematology analyzers, interference from lipemia or icteric specimens can lead to decreased light detected and measured through the sample and therefore inaccurate hemoglobin results occur. On an electronic cell counter, hemoglobin determination may be falsely elevated caused by the presence of:

- A. Lipemic or icteric plasma
- B. Leukocytopenia or Leukocytosis
- C. Rouleaux or agglutinated RBCs
- D. Anemia or Polycythemia

Correct Answer: A

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### QUESTION 3



The activities conducted in a laboratory with a certificate of registration include:

- A. urinalysis only
- B. moderate- or high-complexity lab testing until the lab is determined by survey to be in compliance
- C. physicians to perform microscopy only
- D. waived tests only

Correct Answer: B

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#### QUESTION 4

The term universal precautions refers to:

- A. treating only CERTAIN specimens as infectious.
- B. mixing organic chemicals under a hood.
- C. wellness clinic available to everyone.
- D. universal blood donors.

Correct Answer: A

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#### QUESTION 5

A positive spot test shows agglutination of horse erythrocytes when added to patient serum previously absorbed with guinea pig kidney, but not when added to patient serum previously absorbed with beef erythrocyte stroma. The test is generally simple, sensitive, and specific, but false negative are common in young children with mononucleosis.

The most common rapid slide test (MONOSPOT? for infectious mononucleosis employs:

- A. Horse erythrocytes
- B. Sheep erythrocytes
- C. Intact beef erythrocytes
- D. None of the above

Correct Answer: A