

ASCP-MLT^{Q&As}

MEDICAL LABORATORY TECHNICIAN - MLT(ASCP)

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QUESTION 1

Using the formula on the right,

$$\frac{\text{r of cells counted x}}{\text{r of larger squares ($$

Cells/?L = 370 x 100 / 18 x 0.1 Cells/?L = 37000 / 1.8 Cells/?L = 20556 or 2.06 x 10⁴ A sample of cerebrospinal fluid is diluted 1:100; the standard 9 squares of a hemocytometer are counted on each side for a total of 18 large squares. Side 1-- 186 nucleated cells counted Side 2-- 184 nucleated cells counted total nucleated cells = 370 Using the standard hemocytometer formula shown on the right, what is the nucleated cell count per microliter (?L)?

- A. 1.03 x 10⁴
- B. 2.06 x 10⁴
- C. 4.62 x 10⁴
- D. 9.25 x 10⁴

Correct Answer: B

QUESTION 2

All of the following have been an inspection deficiency for CLIA-approved laboratories except:

- A. The laboratory needs to verify that written policies and procedures are established for patient testing.
- B. The laboratory needs to verify the accuracy of any test or procedure it performs.
- C. The laboratory needs to verify that the eyewash stations are properly functioning.
- D. The laboratory needs to verify the proper storage for reagents and patient specimens.

Correct Answer: C

QUESTION 3

A zone of inhibition is the area around an antibiotic-infused paper disk that does not show any bacterial growth. The antibiotic impregnated on the disk will diffuse into the agar in the area surrounding the disk. If the bacteria are sensitive to the antibiotic, they cannot grow near the disk. The size of the zone is proportional to how sensitive the organism is. If the organism is resistant to the antibiotic, it will grow very closely to the disk.

The size of the zone of suppressed growth on a sensitivity plate using sensitivity disks is referred to as the zone of:

- A. beta hemolysis
- B. alpha hemolysis
- C. gamma hemolysis
- D. inhibition
- E. susceptibility

Correct Answer: D

QUESTION 4

Following an AMI, elevated CK-MB returns to normal ranges in 48-72 hours. If a patient has a second AMI in this time period, a second rise in concentrations of CK-MB would be seen. This is not true for the cardiac troponins since they remain elevated 7-14 days following an AMI.

Which one of the following cardiac biomarkers could detect a reinfarction?

- A. cTnI
- B. cTnT
- C. TnC
- D. CK-MB

Correct Answer: D

QUESTION 5

Hemoglobin electrophoresis uses an electric field to separate hemoglobin molecules based on differences in net electrical charge. The rate of electrophoretic migration is also dependent on the ionic radius of the molecule, the viscosity of the solution through which it is migrating, the electrical field strength, temperature, and the type of supporting medium used.

Electrophoretic separation of hemoglobin fundamentally relies on:

- A. Size differences of molecules
- B. Net charge differences of molecules
- C. Concentration differences of molecules
- D. Shape variations of molecules

Correct Answer: B

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