



ASCP-MLT^{Q&As}

MEDICAL LABORATORY TECHNICIAN - MLT(ASCP)

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QUESTION 1

The hepatitis B vaccine is a series of immunizations consisting of three injections of the hepatitis B antigen. The antigen causes the recipient of the injection to make antibodies against the antigen, hence why this is an example of active immunity.

Immunology

The hepatitis B virus vaccine was administered to MLS students during Orientation. Which type of immunity is expected to develop and provide long-term protection?

- A. active
- B. passive
- C. adoptive
- D. innate
- E. inactive

Correct Answer: A

QUESTION 2

The correct answer for this question is 1300 mg/dL. The laboratorian performed a 1:4 dilution by adding 0.25 mL (or 250 microliters) of patient sample to 750 microliters of diluent. This creates a total volume of 1000 microliters. So, the patient sample is 250 microliters of the 1000 microliter mixed sample, or a ratio of 1:4. Therefore, the result given by the chemistry analyzer must be multiplied by a dilution factor of 4. $325 \text{ mg/dL} \times 4 = 1300 \text{ mg/dL}$.

After experiencing extreme fatigue and polyuria, a patient's basic metabolic panel is analyzed in the laboratory. The result of the glucose is too high for the instrument to read. The laboratorian performs a dilution using 0.25 mL of patient sample to 750 microliters of diluent. The result now reads 325 mg/dL. How should the techologist report this patient's glucose result?

- A. 325 mg/dL
- B. 1300 mg/dL
- C. 975 mg/dL
- D. 1625 mg/dL

Correct Answer: B

QUESTION 3

The patient's BUN is within normal range (5-20 mg/dL) while the creatinine is about five times the upper normal range (0.6-1.2 mg/dL). Gross elevations in creatinine are almost always accompanied by elevations in BUN when there is kidney impairment. Either the BUN or creatinine value in this case is incorrect. Both tests should be repeated.



A patient's BUN value is 15 mg/dl and his creatinine is 5 mg/dl. If this patient is not undergoing dialysis, what conclusion would you draw from these results?

- A. patient is normal
- B. patient is in early stage of renal disease
- C. patient protein intake is quite low
- D. patient has suffered muscle deterioration
- E. one of the values is in error

Correct Answer: E

QUESTION 4

- A. 1 kilometer
- B. 10 millimeters
- C. 1 inch
- D. 5 millimeters

Correct Answer: B

QUESTION 5

Following an accidental needlestick, the person should be tested for all of the following except:

- A. human immunodeficiency virus (HIV)
- B. hepatitis C virus (HCV)
- C. hepatitis B virus (HBV)
- D. hepatitis A virus (HAV)

Correct Answer: D

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