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MEDICAL LABORATORY TECHNICIAN - MLT(ASCP)

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**QUESTION 1**

Alkaline over acid, or K/A, in TSI reactions is associated with the fermentation of glucose alone and the utilization of peptone.

Which of the following sugars has been fermented by a gram-negative rod that has produced an alkaline slant and an acid butt on triple sugar iron agar (TSI).?

- A. lactose
- B. sucrose
- C. glucose
- D. glucose and sucrose

Correct Answer: C

QUESTION 2

To prevent blood from clotting the specimen must be:

- A. collected in a tube containing an anticoagulant.
- B. inverted right after collection.
- C. centrifuged right after collection.
- D. both A and B

Correct Answer: D

QUESTION 3

An ultrarapid metabolizer (UM) would require a higher dose of a drug than an EM (a person with normal enzyme activity) since the UM eliminates the drug more quickly.

A CYP2D6 ultrarapid metabolizer (UM) would require _____ dose of an active drug (non-prodrug) that is metabolized by CYP2D6 than a CYP2D6 extensive metabolizer (EM).

- A. a higher
- B. a lower
- C. the same

Correct Answer: A

QUESTION 4



The lactophenol blue mount reveals tiny, ovoid microconidia, arranged in a daisy-head pattern at the tip of a straight conidiophore. This appearance is characteristic of the mold form of *Sporothrix schenckii*. By moving the focus up and down

in a microscopic preparation, delicate hair-like attachments may be observed for each conidium.

The mold form of *Coccidioides immitis* produces delicate hyphae that break up into arthroconidia separated by empty cells, giving an alternatively staining appearance.

The mold form of *Blastomyces dermatitidis* is characterized by the production of single, smooth microconidia, each borne on a single, thin conidiophore ("lollipops").

The mold form of *Histoplasma capsulatum* is recognized by the production of large, echinulate macroconidia, appearing as a prickly surface.

The ovoid microconidia arranged in a daisy-head pattern at the tip of a straight conidiophore, observed in the photomicrograph on the right, is characteristic of which of the following dimorphic molds?

- A. *Sporothrix schenckii*
- B. *Coccidioides immitis*
- C. *Blastomyces dermatitidis*
- D. *Histoplasma capsulatum*

Correct Answer: A

QUESTION 5

- A. True
- B. False

Correct Answer: B