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MEDICAL LABORATORY TECHNICIAN - MLT(ASCP)

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QUESTION 1

Haemophilus influenzae is both X and V factor dependent for growth, and is the most common cause of obstructive laryngitis and epiglottitis. H. parainfluenzae is only V-factor dependent and causes only mild pharyngitis, rarely obstructive in nature. H. aphrophilus can be part of the normal upper respiratory flora in humans, does not cause pharyngitis, and is not X or V-factor dependent for growth. Although H. haemolyticus is both X and V- factor dependent, it is beta hemolytic on blood agar and is generally considered non pathogenic.

Acute obstructive epiglottitis, both in adults and children, is caused by the bacterial species shown in this split screen photograph. The colonies recovered on chocolate agar (upper frame) required both hematin and NAD, (as shown by colony growth only between the X and V strips in the lower frame). The most likely identification is:



- A. Haemophilus parainfluenzae
- B. Haemophilus influenzae
- C. Haemophilus aphrophilus
- D. Haemophilus haemolyticus

Correct Answer: B

QUESTION 2

The approximate volume of CSF in an adult is 90-150 mL. What is the approximate volume of spinal fluid in an adult?

- A. 10-40 mL
- B. 50-70 mL
- C. 90-150 mL
- D. 200-500 mL

Correct Answer: C

QUESTION 3

The laboratory is under the direction of a:



- A. phlebotomist
- B. pharmacist
- C. medical assistant
- D. pathologist

Correct Answer: D

QUESTION 4

The A and B antigens are present on the red cells of an AB patient. H antigen is a precursor to the ABO antigens. An individual with type AB blood will demonstrate the complete absence of which of the following antigen sites?

- A. A
- B. B
- C. H
- D. None of the above

Correct Answer: D

QUESTION 5

Hemoglobin H is a tetramer made of four beta globin chains. Hemoglobin H occurs when there is very limited alpha chain availability used to make normal hemoglobin A. Hemoglobin H forms in those affected with alpha thalassemia major as

well as in people with the combination of two-gene deletion alpha thalassemia and hemoglobin Constant Spring.

Hematology

Which of the following combination of globin chains comprise Hemoglobin H?

- A. 2 alpha, 2 beta
- B. 2 alpha, 2 gamma
- C. 4 beta chains
- D. 4 alpha chains

Correct Answer: C