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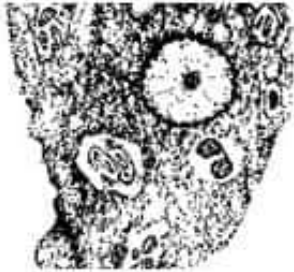
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**QUESTION 1**

Entamoeba gingivalis resembles Entamoeba histolytica both in size and in nuclear characteristics. Entamoeba gingivalis may contain numerous cytoplasmic inclusions such as red blood cells, white blood cells, and bacteria.



I reside in the mouth where I measure approximately 17 micro meters.

- A. Entamoeba coli trophozoite
- B. Entamoeba gingivalis trophozoite
- C. Acanthamoeba species trophozoite
- D. Trichomonas vaginalis trophozoite

Correct Answer: B

QUESTION 2

The ratio of blood to anticoagulant in a light blue stopper tube is:

- A. 10:1
- B. 9:1
- C. 5:1
- D. 2:1

Correct Answer: B

QUESTION 3

Insulin is the hormone that is mainly responsible for the entry of glucose into the cell for energy production. Glucagon and epinephrine promote glycogenolysis, conversion of glycogen to glucose, which increases plasma glucose. Cortisol, along with glucagon, increases gluconeogenesis, formation of glucose from noncarbohydrates, which also raises plasma glucose concentration.

Chemistry



Which of the following hormones is mainly responsible for the entry of glucose into the cell for energy production?

- A. Epinephrine
- B. Glucagon
- C. Cortisol
- D. Insulin

Correct Answer: C

QUESTION 4

Though automated extraction machines have many benefits over manual methods the costs are high and generally require a high throughput of samples in order to justify the costs.

Automated extraction has many benefits over the traditional manual methods. The most important benefit is that the nucleic acid isolated is constantly consistent. There is a reduced amount of manipulation with dramatically decreases the

chance of cross contamination. Also, automated extraction machines are considered moderate complexity and can be performed by a wider variety of laboratory professionals.

All of the following are considered benefits of automated isolation and extraction equipment EXCEPT:

- A. Automated isolation equipment is cheaper and more practical
- B. Automated isolation equipment requires less manipulation
- C. Automated isolation equipment is considered moderate complexity
- D. Automated isolation equipment provides consistent results

Correct Answer: A

QUESTION 5

The correct answer which best fits the characteristics in this question is *Mycobacterium kansasii*.

The remaining *Mycobacterium* strains can be eliminated as:

Mycobacterium marinum is considered a fast-grower.

Mycobacterium scrofulaceum produce deep-yellow to orange pigmented colonies when grown in the either the light or dark.

Mycobacterium avium grows colonies which are nonpigmented in the light and dark which do not intensify after light exposure.

What is the MOST likely identification of an acid-fast bacillus that demonstrates the following characteristics?

slow growth



cream to tan colored colonies when grown in the dark

development of yellow pigment upon exposure to light

A. *Mycobacterium kansasii*

B. *Mycobacterium marinum*

C. *Mycobacterium avium*

D. *Mycobacterium scrofulaceum*

Correct Answer: A

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