

--- Page 1 ---

11:30 oa)! LTE (62

Question 1 Not yet answered

Marked out of 1.00 vp Flag question

Who among the under listed was a proponent of the theory of spontaneous generation

Select one:

☒ a.Allof these

☐ b.John Tyndall

☐ c. Francesco Stelluti

☐ d.Aristotle

☐ e. Louis Pasteur

Question 2 Not yet answered

Marked out of 1.00 pv Flag question

Which of the following is a typical Gram-positive bacterium?

Select one:

☒ a.Neisseria spp.

© _si&b. Staphylococcus spp.

© c. Escherichia coli

© d. Salmonella spp.

© _ e. Pseudomonas spp.

Question 3 Not yet answered

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--- Page 2 ---

11:30 am LTE (61

meee _ en ye ee ee ee

Marked out of 1.00 y Flag question

Which of the following is true about simple staining?

Select one:

© _ a. It uses dyes like India ink or Nigrosin

© _ b. It requires two different dyes

☒ c. It produces color contrast and imparts the same color to all bacteria in the smear

☒ d. It does not require making a smear

☐ e. It is primarily used to view viruses

Question 4 Not yet answered

Marked out of 1.00 vp Flag question

Which of the following is not true about Koch's postulates?

Select one:

☒ a. The specific pathogen must be isolated from diseased host and grown in pure culture

☒ b. None of these

☒ c. The pathogen from the pure culture must cause the disease when inoculated into

a healthy, susceptible host A)

☒ d. The pathogen must be present in all cases of the disease

--- Page 3 ---

11:30 oni! LTE (61

☒ b. It requires two different dyes

☒ c. It produces color contrast and imparts the same color to all bacteria in the smear

☒ d. It does not require making a smear

☐ e. It is primarily used to view viruses

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© c. The pathogen from the pure culture
must cause the disease when inoculated into
a healthy, susceptible host

© d. The pathogen must be present in all
cases of the disease

© e. The pathogen must not be re-isolated
from the new host

Question 5 Not yet answered

Marked out of 1.00 pv Flag question A)

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--- Page 4 ---

11:30 oa}! LTE (61

© se. The pathogen must not be re-isolated
from the new host

Question 5 Not yet answered

Marked out of 1.00 p Flag question

The contributions of Robert Koch to the field of Microbiology and Medical Science include the following except

Select one:

☐ a. He developed for the first time a staining technique to stain the bacteria with acidic or basic stain

☐ b. He discovered that bacteria caused tuberculosis in man

☐ c. Using dilute solution of phenol/carbolic acid in surgical dressings to prevent wound infections

☐ d. He proved the Germ Theory of Disease

☐ e. He isolated and identified different kinds of bacteria from various samples

Question 6 Not yet answered fA)

Marked out of 1.00 > Flag question

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--- Page 5 ---

11:30 oa!) LTE (61

What makes chocolate agar an enriched medium?

Select one:

☐ a. It includes selective agents to inhibit unwanted bacteria

☐ b. It has a high salt concentration

☐ c. It contains glucose as a carbon source

☐ d. It contains heat-treated blood, giving it a brown color

☐ e. It contains a pH indicator to differentiate bacterial species

Question 7 Not yet answered

Marked out of 1.00 py Flag question

What is the primary mechanism by which UV-C light kills microorganisms?

Select one:

☐ a. Disruption of cell membranes

☐ b. Inhibition of metabolic enzymes

☒ c. Heating and denaturation of proteins

☐ d. Destruction of cell walls

☐ e. Damage to DNA and RNA

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--- Page 6 ---

11:31 oa!) LTE (61

Why might an undefined medium be chosen over a defined medium?

Select one:

☒ a. Because it is necessary for autotrophic organisms

© sb. Because it always has a higher pH

©. c. Because it is always less expensive than defined media

© d. Due to its ability to support microorganisms that cannot grow on defined media

© __ e. Because it provides precise control over nutrient content

Question 9 Not yet answered

Marked out of 1.00 pv Flag question

Who proposed the Germ Theory of Disease?

Select one:

O_ a. John Needham

b. Lazzaro Spallanzani

c. Louis Pasteur

d. Robert Koch

e. Robert Hook A)

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--- Page 7 ---

11:31 ot) LTE (61

Which of the following is NOT a method of physical sterilization?

Select one:

☐ a. Autoclaving

☐ b. Ionizing radiation

☐ c. Boiling

☐ e. Quaternary ammonium compounds

☐ O

☐ O

☐ d. Filtration

☐ QO

Question 11 Not yet answered

Marked out of 1.00 pv Flag question

Which of the following is true about bacteria?

Select one:

☐ a. None of these

☐ b. They grow best at acidic pH

☐ d. They all produce spores for reproduction

☐ O

☐ c. They have cell membrane and cell wall

☐ O

☐ e. All bacteria are aerobes

Question 12 Not yet answered

Marked out of 1.00 p Flag question (A)

What is the primary limitation of the filtration

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11:31 sal! LTE (61):

Timileyin

Microbiology '28 +X <;

Yes

Marked out of 1.00 pv Flag question

What is the primary limitation of the filtration process for sterilization?

Select one:

☐ a. It leaves toxic residues in the filtered material

☐ b. It cannot remove all bacteria

☐ c. It is too slow for practical use

☐ d. The pores are not small enough to filter out viruses

☐ e. It requires high pressure to be effective

Question 13 Not yet answered

Marked out of 1.00 pv Flag question

What distinguishes a defined medium from an undefined medium?

Select one:

☒ a. Defined medium has known quantities

☐

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--- Page 9 ---

11:31 oa)! LTE (61

What distinguishes a defined medium from an undefined medium?

Select one:

☐ a. Defined medium has known quantities of all ingredients

☒ | b. Undefined medium is only used for eukaryotic cells

☐ c. Defined medium is more expensive than undefined medium

☐ d. Defined medium contains complex ingredients like yeast extract

☐ e. Undefined medium cannot support microbial growth

Question 14 Not yet answered

Marked out of 1.00 by Flag question

The first drawing of microorganisms was published in

Select one:

☐ a. Microbiology newsletter

☐ b. Microbiology magazine

☐ d. Robert Hook's Micrographia

☐ e. Robert Koch Journal A)

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☐

☐ c. Basic Microbiology textbook

☐ f)

☐

--- Page 10 ---

11:31 oat! LTE (61

What is the principle behind the functioning of an autoclave for sterilization?

Select one:

☒ a. Moist heat sterilization

☐ b. Chemical disinfection

☐ c. Filtration

☐ d. Ultraviolet (UV) light exposure

☐ e. Dry heat sterilization

☐ f. Other

☐ g. Other

Question 16 Not yet answered

Marked out of 1.00 pv Flag question

The invention of the simple microscope was very important to the development of Microbiology.

But why was it not followed by much progress afterwards?

Select one:

© a. The simple microscope was converted to

compound microscope

© _b. There were no more scientific investigations by Aristotle

© c. Microscopic observation did not provide

enough information about the colonial morphology of microorganisms fA)

©. d. The simple microscope seemed to

fracture

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--- Page 11 ---

11:31 (t) LTE (61

© sa. Moist heat sterilization

© _ b. Chemical disinfection

©. «.Filtration

© | d. Ultraviolet (UV) light exposure

© e.Dry heat sterilization

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compound microscope

© _ b. There were no more scientific

investigations by Aristote

©. Microscopic observation did not provide

enough information about the colonial

morphology of microorganisms

☐ d. The simple microscope seized to

function

☐ e. Francesco Stelluti died

Question 17 Not yet answered

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--- Page 12 ---

11:31 AM LTE (61

Marked out of 1.00 v Flag question

wanennecn cece eens is regarded as the Father of
"Bacteriology" and "Protozoology", because of
his contribution to the field of bacteria and
protozoa

Select one:

☐ a. All of the above

☒ b. Louis Pasteur

☐ c. None of these

☐ d. Aristotle

☐ e. Anthony Van Leeuwenhoek

Question 18 Not yet answered

Marked out of 1.00 per Flag question

Which of the following items is most suitable for sterilization using a hot air oven?

Select one:

☒ a. Surgical dressings

b. Rubber gloves

c. Culture media

d. Plastic containers

0000

e. Glycerol and dusting powders

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--- Page 13 ---

11:31 oa)! LTE (61

wuestion ig Not yet answered

Marked out of 1.00 pv Flag question

Fungi are both macroscopic and microscopic.

The microscopic form is

Select one:

☒ a. Mushroom

☒ b. Mold

☐ c. Virus

☒ d. Yeast

☒ e. Hyphae

Question 20 Not yet answered

Marked out of 1.00 pv Flag question

All those who contributed to the understanding

of the Germ theory of disease were

Select one:

☐ a. Joseph Lister

☐ b. Louis Pasteur, Joseph Lister, and Robert Koch

☐ c. Joseph Lister, and Louis Pasteur

☐ d. Robert Koch, and Joseph Lister

☐ e. Louis Pasteur, and Robert Koch A)

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--- Page 14 ---

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Question 1 Not yet answered

Marked out of 1.00 yr Flag question

Which of the following is true of viruses?

Select one:

☐ a, Viruses cannot Infect animals

☒ b. They cannot infect other

microorganisms

c, They cannot infect plants

d. They can be grown In synthetic culture

media

e. They are acellular

Question 2 Not yet answered

Marked out of 1.00 er Flag question

The first drawing of microorganisms was
published in

Select one:

☐ a. Microbiology magazine

b. Robert Hook's Micrographia

c. Microbiology newsletter

d, Robert Koch Journal

e. Basic Microbiology textbook A)

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--- Page 15 ---

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Question 3 Not yet answered

Marked out of 1.00 p Flag question

What makes chocolate agar an enriched medium?

Select one:

☐ a. It contains a pH indicator to differentiate

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b. It includes selective agents to inhibit

unwanted bacteria

☐ c. It contains glucose as a carbon source

☐ d. It has a high salt concentration

e. It contains heat-treated blood, giving it a

brown color

Question 4 Not yet answered

Marked out of 1.00 py Flag question

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Select one:

☒ a. The pathogen must be present in all

cases of the disease

b. The pathogen from the pure culture must cause the disease when inoculated into a healthy, susceptible host

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--- Page 16 ---

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Question 5 Not yet answered

Marked out of 1.00 y Flag question

Fungi are both macroscopic and microscopic.

The microscopic form is

Select one:

a. Mold

b, Virus

c. Yeast

d. Hyphae

e. Mushroom

Question 6 Not yet answered

Marked out of 1.00 yp Flag question

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Select one:

© a.Francesco Stelly 'ed

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b. Microscopic obsx. vation did not provide

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--- Page 17 ---

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Question 6 Not yet answered

Marked out of 1.00 v Flag question

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But why was it not followed by much progress afterwards?

Select one:

© a. Francesco Stelluti died

@® Db. Microscopic observation did not provide enough information about the colonial

morphology of microorganisms

© c. There were no more scientific investigations by Aristote

—~

© d. The simple microscope was converted to compound microscope

© e. The simple microscope seized to function

Question 7 Not yet answered

Marked out of 1.00 ev Flag question

The contributions of Robert Koch to the field of Microbiology and Medical Science include the following except

Select one: aN A)

© a, He discovered that bacteria caused

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--- Page 18 ---

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Question 7 Not yet answered

Marked out of 1.00 ye Flag question

The contributions of Robert Koch to the field of Microbiology and Medical Science include the following except

Select one:

☐ a. He discovered that bacteria caused

tuberculosis in man

☐ _ b. He proved the Germ Theory of Disease

☒ _ c. Using dilute solution of phenol/carbolic acid in surgical dressings to prevent wound infections

☐ d. He developed for the first time a staining technique to stain the bacteria with

acidic or basic stain

☐ e. He Isolated and Identified different kinds

of bacteria from various samples

Question 8 Not yet answered

Marked out of 1.00 v Flag question

Bacteria are prokaryotes because

Select one:

☒ a. They grow rapidly A)

☐ b. They have true nucleus

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--- Page 19 ---

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Question 8 Not yet answered

Marked out of 1.00 r Flag question

Bacteria are prokaryotes because

Select one:

☒ a. They grow rapidly

☐ b. They have true nucleus

☐ c. They are very minute in size

☐ d. They do not have true nucleus enclosed

in a cell membrane

© e. They have cytoplasm

Question 9 Not yet answered

Marked out of 1.00 4 Flag question

What is the primary mechanism by which UV-C light kills microorganisms?

Select one:

- a. Damage to DNA and RNA
- b. Inhibition of metabolic enzymes
- c. Destruction of cell walls
- d, Heating and denaturation of proteins
- e, Disruption of cell membranes

x ©

Question 10 Not yet answered

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--- Page 20 ---

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Question 10 Not yet answered

Marked out of 1.00 yy Flag question

Which of the following lack cellular components necessary for metabolism or independent reproduction?

Select one:

@© a. Virus

b. Yeast

c. Algae

d. Mold

e. Bacterium

Question 11 Not yet answered

Marked out of 1.00 ye Flag question

Which of the following is true about simple staining?

Select one:

- a. It uses dyes like India ink or Nigrosin
- b. It is primarily used to view viruses
- c. It requires two different dyes

@ = d. It produces color contrast and imparts

the same color to all bacteria in the smear (A)

nw

- e. It does not require making a smear

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--- Page 21 ---

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Question 12 Not yet answered

Marked out of 1.00 yp Flag question

Antiseptic surgery method that prevented microorganisms from entering wounds was developed by

Select one:

- +) a. Louis Pasteur
- b. Robert Hook

c. Joseph Lister

d. Robert Koch

e. Aristole

Question 13 Not yet answered

Marked out of 1.00 yy Flag question

Which of the following items is most suitable for sterilization using a hot air oven?

Select one:

a. Surgical dressings

b, Plastic containers

c. Rubber gloves

d. Culture media

e, Glycerol and 7 powders

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--- Page 22 ---

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Question 14 Not yet answered

Marked out of 1.00 ev Flag question

What is a characteristic of negative staining?

Select one:

☐ a, It requires heat-fixing the bacterial

smear

☐ b, It uses basic dyes such as methylene
blue or basic fuchsin

☐ c. It stains the bacterial or yeast capsule
black

☐ d. It does not require making a smear and

stains the background

☐ e. It uses two different stains to

differentiate bacteria

Question 15 Not yet answered

Marked out of 1.00 yp Flag question

What is the primary use of assay media in

microbiological techniques?

Select one:

- a. Maintenance of bacterial cultures
- b. Characterization of bacteria
- c. Isolation of pure bacterial cultures (A)
- d. To determine vitamins, amino acids, and

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--- Page 23 ---

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Question 15 Not yet answered

Marked out of 1.00 r Flag question

What is the primary use of assay media in microbiological techniques?

Select one:

- a, Maintenance of bacterial cultures

b, Characterization of bacteria

c. Isolation of pure bacterial cultures

d. To determine vitamins, amino acids, and

antibiotics

e. Enumeration of bacteria

Question 16 Not yet answered

Marked out of 1.00 v Flag question

All those who contributed to the understanding
of the Germ theory of disease were

Select one:

a, Joseph Lister, and Louis Pasteur

b. Robert Koch, and Joseph Lister

c. Joseph Lister

d, Louls Pasteur, Joseph Lister, and Robert

Koch

aN

© _ e. Louls Pasteur, ain Robert Koch

--- Page 24 ---

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Question 17 Not yet answered

Marked out of 1.00 py Flag question

Why might an undefined medium be chosen over a defined medium?

Select one:

>) a. Because it is necessary for autotrophic organisms

@ bb. Due to its ability to support microorganisms that cannot grow on defined media

© c. Because it provides precise control over nutrient content

© d, Because it is always less expensive than defined media

© _ e. Because it always has a higher pH

Question 18 Not yet answered

Marked out of 1.00 4 Flag question

Which of the following is NOT a method of physical sterilization?

Select one:

☐ a. Ionizing radiation

☒ b. Autoclaving XK (A)

☐ c. Quaternary ammonium compounds

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--- Page 25 ---

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Question 18 Not yet answered

Marked out of 1.00 py Flag question

Which of the following is NOT a method of

physical sterilization?

Select one:

☒ a. Ionizing radiation

☐ b. Autoclaving

☐ c. Quaternary ammonium compounds

☐ d. Boiling

☐ e. Filtration

Question 19 Not yet answered

Marked out of 1.00 py Flag question

Who among the under listed was a proponent of the theory of spontaneous generation

Select one:

☐ a. Aristotle

☐ b, John Tyndall

☐ c. Louis Pasteur 7%

☐ d. All of these

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--- Page 26 ---

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Question 19 Not yet answered

Marked out of 1.00 py Flag question

Who among the under listed was a proponent of the theory of spontaneous generation

Select one:

a, Aristole

b, John Tyndall

c. Louls Pasteur

d. All of these

e. Francesco Stelluti

Question 20 Not yet answered

Marked out of 1.00 ev Flag question

Which of the following is a typical Gram-negative bacterium?

Select one:

- a. Streptococcus spp
- b, Staphylococcus spp.
- c. Clostridium spp.

- d, Bacillus spp.

- e. Helicobacter spp.

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--- Page 27 ---

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Question 1 Not yet answered

Marked out of 1.00 r Flag question

Which of the following is NOT a method of

physical sterilization?

Select one:

- a. Filtration

- b, Quaternary ammonium compounds
- c. Bolling

d. Autoclaving

e. Ionizing radiation

Question 2 Not yet answered

Marked out of 1.00 py Flag question

Which of the following is an advantage of dry heat sterilization?

Select one:

☐ a. It leaves no toxic residues

☐ b. It is faster than moist heat sterilization

☐ c. It can be used to sterilize culture media

☐ d. It is effective for sterilizing items that

might be damaged by moisture

☐ e. It is suitable for all types of materials A)

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Question 3 Not yet answered

Marked out of 1.00 y Flag question

Which of the following is not true about viruses?

Select one:

@ =a. They carry out metabolism on their own

b, They are much smaller than prokaryotes

© c. They exist in the extracellular and intracellular phase

© d. They can mutate

© — e, They can reproduce, but only in living

host cells

Question 4 Not yet answered

Marked out of 1.00 4 Flag question

Fungi are both macroscopic and microscopic.

The microscopic form is

Select one:

- a, Hyphae
- b. Yeast
- c. Virus
- d. Mold
- e. Mushroom

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--- Page 29 ---

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Question 5 Not yet answered

Marked out of 1.00 v Flag question

What is the primary limitation of the filtration process for sterilization?

Select one:

- a. It requires high pressure to be effective
- ☒ b. It cannot remove all bacteria
- c. It is too slow for practical use
- ☐ d. The pores are not small enough to filter

out viruses

) e. It leaves toxic residues in the filtered material

Question 6 Not yet answered

Marked out of 1,00 e Flag question

The contributions of Robert Koch to the field of Microbiology and Medical Science include the following except

Select one:

@ a. Using dilute solution of phenol/carbolic acid in surgical dressings to prevent wound infections

© b. He proved the 7% Theory of Disease A)

©) c. He isolated and identified different kinds

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--- Page 30 ---

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Question 6 Not yet answered

Marked out of 1.00 ye Flag question

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Select one:

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© _ b.He proved the Germ Theory of Disease

© c.He isolated and identified different kinds of bacteria from various samples

© d, He discovered that bacteria caused

tuberculosis in man

© — e.He developed for the first time a staining technique to stain the bacteria with acidic or basic stain

Question 7 Not yet answered

Marked out of 1.00 ev Flag question

Which of the following is true of viruses?

Select one:

> a. They cannot in*® ther

Osman >

microorganisms

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--- Page 31 ---

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Question 7 Not yet answered

Marked out of 1.00 a Flag question

Which of the following is true of viruses?

Select one:

© a. They cannot infect other

microorganisms

b, Viruses cannot infect animals

c. They cannot infect plants

@ = d, They are acellular

e, They can be grown in synthetic culture

media

Question 8 Not yet answered

Marked out of 1.00 e Flag question

Which of the following is a typical Gram-negative bacterium?

Select one:

a. Clostridium spp.

b. Staphylococcus spp.

c. Streptococcus spp

d. Helicobacter spp.

e. Bacillus spp.

mas

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Question 9 Not yet answered

Marked out of 1.00 py Flag question

What distinguishes a defined medium from an undefined medium?

Select one:

☒ a, Undefined medium is only used for

eukaryotic cells

☐ b. Defined medium has known quantities of all ingredients

☒ c. Undefined medium cannot support

microbial growth

☒ d, Defined medium is more expensive than undefined medium

☒ — e. Defined medium contains complex

ingredients like yeast extract

Question 10 Not yet answered

Marked out of 1.00 py Flag question

What is a characteristic of negative staining?

Select one:

a. It does not require making a smear and

stains the background

b. It stains the cell or yeast capsule

black

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--- Page 33 ---

lz OOS&Xs wO QB wI el 26%8

Question 10 Not yet answered

Marked out of 1.00 py Flag question

What is a characteristic of negative staining?

Select one:

@ _ a, It does not require making a smear and stains the background

@ _ b, It stains the bacterial or yeast capsule black

@ _ c, It uses basic dyes such as methylene blue or basic fuchsin

@ _ d, It requires heat-fixing the bacterial smear

@ _ e, It uses two different stains to differentiate bacteria

Question 11 Not yet answered

Marked out of 1.00 py Flag question

What is the principle behind the functioning of an autoclave for sterilization?

Select one:

@ — a, Chemical disinfection

b, Ultraviolet (UV) light exposure

c. Dry heat sterilization A)

© d, Filtration

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--- Page 34 ---

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Question 11 Not yet answered

Marked out of 1.00 y Flag question

What is the principle behind the functioning of an autoclave for sterilization?

Select one:

a, Chemical disinfection

b, Ultraviolet (UV) light exposure

c. Dry heat sterilization

d. Filtration

e. Moist heat sterilization

Question 12 Not yet answered

Marked out of 1.00 yp Flag question

What is the primary reason anaerobic bacteria need special media for growth?

Select one:

a. Low oxygen content and reduced oxidation-reduction potential

b. High oxidation-reduction potential

c. Increased light exposure

d. High oxygen content

e. Increased temperature

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--- Page 35 ---

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Question 13 Not yet answered

Marked out of 1.00 yr Flag question

What is the primary use of assay media in microbiological techniques?

Select one:

> a. Maintenance of bacterial cultures

@® __b. To determine vitamins, amino acids, and antibiotics

c. Isolation of pure bacterial cultures

d, Enumeration of bacteria

e, Characterization of bacteria

Question 14 Not yet answered

Marked out of 1.00 e Flag question

Bacteria are prokaryotes because

Select one:

@© a. They do not have true nucleus enclosed

in a cell membrane

b. They are very minute in size

c. They have true nucleus

d. They grow rapidly

e. They have cyto

y cyt x

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--- Page 36 ---

IZ203;30 OS 8X48 wi © OB Ful 26%8

Question 15 Not yet answered

Marked out of 1.00 er Flag question

Why are dyes used to stain cells in microscopy?

Select one:

© a, To differentiate between different types of viruses

© _ b. To bind with positively charged cellular constituents.

© c. To stain the slide background black

© d. To increase the magnification of the light

microscope

@_ e. To create color contrast and enhance

visibility of structural details