Microbiology Practical Applications and Infection Prevention 1st edition Colbert Test Bank

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TRUE/FALSE

1 : Select True or False. ?The species name is given to a group of bacteria with similar characteristics.
A : true
B : false

Correct Answer : B

2 : Select True or False. ?Most antibiotics are bactericidal at low concentrations.
A : true
B : false

Correct Answer : B

MULTIPLE CHOICE

3 : Select the best response to the question.?You are preparing a hospitalized patient for discharge home. What are the important instructions to include in your discharge medication teaching?
A :
?To take the prescribed antibiotic only as long as symptoms are present to decrease the risk of antibiotic resistance.

B :
?To vary the administration times of the antibiotic according to the severity of symptoms.

C :
?To continue the antibiotic only if the patient’s fever returns.

D :
?To take all of the prescribed antibiotics to decrease the risk of antibiotic resistance and disease recurrence.

Correct Answer : D

4 : Select the best response to the question.?What is the purpose of a simple stain?
A :
?To identify gram-positive bacteria.

B :
?To provide additional information about the cell based on the composition of the cell wall.

C :
?To identify gram-negative bacteria.

D :
?To provide contrast to better illustrate the structure and arrangement of bacterial cells.

Correct Answer : D

5 : Select the best response to the question.?Which of the following statements describes the

“Golden Age of Microbiology?”
A :
?Most agents of bacterial disease were identified and cultivated.

B :
?Jenner developed the smallpox vaccine.

C :
?Leeuwenhoek developed the microscope.

D :
?Aseptic techniques such as hand washing were first promoted.

Correct Answer : A

6 : Select the best response to the question.?Which of the following is an important advantage of the broth dilution method over the disk diffusion method of susceptibility testing?
A :
?The results are identified more rapidly.

B :
?It can identify the drug concentration or dosage needed to inhibit organism growth.

C :
?It can identify a “zone of inhibition” that is compared to established standards to determine sensitivity.

D :
?The testing is less expensive and less labor intensive.

Correct Answer : B

7 : Select the best response to the question.?Which of the following is a clinical indication for the use of a broad spectrum antibiotic?
A :
?The pathogen is virulent.

B :
?The pathogen has not yet been identified.

C :
?The pathogen is anaerobic.

D :
?The host is immunocompromised.

Correct Answer : B

MULTIPLE ANSWER

8 : Identify all answer choices that best complete the question.?Which of the following are characteristics of binary fission? ?

A :
?The cell divides itself in half.

B :
?It is a form of sexual reproduction.

C :
?It is a form of asexual reproduction.

D :
?The cell divides its DNA and other organelles.

Correct Answer : D

9 : Identify all answer choices that best complete the question.?Which of the following rules are followed when naming bacterial cells?

A :
?The genus and species names are underlined.

B :
?The species name is capitalized and written first.

C :
?The genus and species names are italicized.

D :
?The genus name is capitalized and written first.

Correct Answer : D

10 : Identify all answer choices that best complete the question.?Which of the following techniques are followed when preparing a culture?

A :
?Any mixed cultures must be separated into subcultures until only one species is present.

B :
?The plate is stored in an incubator to allow optimal growth.

C :
?The sample is spread on the media in a specific pattern that divides the plate into four quadrants.

D :
?The plate is stored bottom up to prevent condensation from dripping into the colonies.

Correct Answer : D

MATCHING

11 : ?Cocci bacteria group together in distinct formations. Match the formation with their description.

A : Linked together in clusters.	A : ?staphylococci
B : A single formation.	B : ?monococci
C : ?Linked together in pairs.	C : ?streptococci
D : ?Linked together in chains.	D : ?diplococci

Correct Answer :
A : A

B : B

C : D

D : C

12 : ?Match the area of specialization with their description.

A : ?Specializes in identification, study, and treatment of viral infections.	A : ?parasitology
B : ?Responsible for identifying specific parasitic infections.	B : ?virology
C : ?Responsible for the growth, isolation, identification, and treatment recommendations of bacterial infections.	C : ?bacteriology
D : ?Focuses on the identification of fungi, including yeasts and molds, which can cause infection.	D : ?mycology

Correct Answer :
A : B

B : A

C : C

D : D

13 : Match the type of research with their description. ?

A : ?Administering antibiotic A to one group of patients with pneumonia and antibiotic B to a different group of patients with pneumonia and evaluating how each of group of patients responds to treatment.	A : ?comparative research
B : ?Identifying a pathogen that causes disease in the body.	B : ?descriptive research

Correct Answer :
A : A

B : B

FILL IN THE BLANK

14 : Fill in the blanks to complete the following statements. ?Tuberculosis, botulism, and tetanus are examples of diseases caused by rod-shaped bacteria known as _____.

Correct Answer : bacilli

15 : Fill in the blanks to complete the following statements. ?_____ antibiotics inhibit the replication of microorganisms and prevent the growth of the organism without destroying them.

Correct Answer : Bacteriostatic

16 : Fill in the blanks to complete the following statements. Bacteria can produce _____ that are highly resistant forms of the organism that develop in response to adverse environmental conditions.

Correct Answer : spores

17 : Fill in the blanks to complete the following statements. A _____ is a group of microbes growing in a nutrient-rich environment. ?

Correct Answer : culture

18 : Fill in the blanks to complete the following statements. _____ is the study of disease patterns and the spread of disease within a population.

Correct Answer : Epidemiology