

***Microbiology for Surgical Technologists 2nd edition
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Ch 2 - The Science of Microbiology

1.

The population of microorganisms present in various anatomical areas of the body are referred to as the _____, sometimes referred to as normal flora.

ANSWER:

microbiome

POINTS:

1

QUESTION TYPE:

Completion

HAS VARIABLES:

False

STUDENT ENTRY MODE:

Basic

DATE CREATED:

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2.

The first classification system developed by Aristotle divided plants and animals into two _____.

ANSWER:

kingdoms

POINTS:

1

QUESTION TYPE:

Completion

HAS VARIABLES:

False

STUDENT ENTRY MODE:

Basic

DATE CREATED:

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3. The scientific system of observing and comparing similarities between microorganisms used to develop the earlier classification systems is called _____.

ANSWER:

phenetics

POINTS:

1

QUESTION TYPE:

Completion

HAS VARIABLES:

False

STUDENT ENTRY MODE:

Basic

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12/9/2015 8:07 AM

4. Unlike bacteria, non-living viruses are acellular microbes consisting of nucleic acids wrapped in a coating called a _____.

ANSWER:

capsid

POINTS:

1

QUESTION TYPE:

Completion

HAS VARIABLES:

False

STUDENT ENTRY MODE:

Basic

DATE CREATED:

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5. The scientific community of microbiologists relies on an established naming system called _____ to identify and classify microbes and other living organisms.

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ANSWER: taxonomy
POINTS: 1
QUESTION TYPE: Completion
HAS VARIABLES: False
STUDENT ENTRY MODE: Basic
DATE CREATED: 12/9/2015 8:07 AM
DATE MODIFIED: 12/9/2015 8:08 AM

6. Which of the general groups of microbes is comprised of extremophiles which thrive in harsh environments such as salt marshes, geothermal springs, and glacial ice?

- a. Archaea
- b. Eukaryotes
- c. Prokaryotes
- d. Viruses

ANSWER: a
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 12/9/2015 8:08 AM
DATE MODIFIED: 12/9/2015 8:09 AM

7. Which of the following scientists expanded the original two kingdom classification system by adding a third, comprised of single-celled eukaryotes and prokaryotes?

- a. Aristotle
- b. Copeland
- c. Haeckel
- d. Woese

ANSWER: c
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False
DATE CREATED: 12/9/2015 8:09 AM
DATE MODIFIED: 12/9/2015 8:10 AM

8. Escherichia coli is an example of the naming of organisms called:

- a. Binomial nomenclature
- b. Cladistics and phylogeny
- c. Morphology
- d. Phenetics

ANSWER: a
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: False

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9. The ordering of divisions of organisms into related groups from domain (largest group) down to species (smallest group) is called a taxonomic:

- a. Domain
- b. Hierarchy
- c. Classification
- d. Nomenclature

ANSWER: b

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

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10. Bergey developed a widely used system of systematic:

- a. Virology
- b. Genomics
- c. Hierarchy
- d. Bacteriology

ANSWER: d

POINTS: 1

QUESTION TYPE: Multiple Choice

HAS VARIABLES: False

DATE CREATED: 12/9/2015 8:12 AM

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Match the following terms or phrases with the correct description or definition.

- | | |
|--|---|
| a. A classification system based on common ancestors, phylogenic relationships, and evolutionary changes. | b. Protein molecules which comprise the capsule around viral nucleic acids. |
| c. A condition of destruction of brain matter from pathogenic invasion. | d. A division of taxonomic hierarchy smaller than kingdom and larger than class. |
| e. Group of microbes which have ancient roots and similarities with unicellular and multicellular microbial organisms. | f. Viral particles which infect bacterial cells. |
| g. The study of all classes and types of prokaryotic organisms. | h. Group of organisms characterized by the presence of a nucleus within the cell structure. |
| i. A non-living pathogen which contains reverse transcriptase that synthesizes DNA from an RNA template. | j. The complete set of an organism's DNA, RNA, chromosomes, and genes. |

QUESTION TYPE: Matching

HAS VARIABLES: False

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11. Encephalopathy

ANSWER: c

POINTS: 1

12. Archaea

ANSWER: e

POINTS: 1

13. Genome

ANSWER: j

POINTS: 1

14. Bacteriology

ANSWER: g

POINTS: 1

15. Capsomeres

ANSWER: b

POINTS: 1

16. Phaginae

ANSWER: f

POINTS: 1

17. Retrovirus

ANSWER: i

POINTS: 1

18. Cladistics

ANSWER: a

POINTS: 1

19. Eukaryote

ANSWER: h

POINTS: 1

20. Phylum

ANSWER: d

POINTS: 1

21.

The term normal flora refers to healthy crops and plant populations unaffected by disease or infestations.

a. True

b. False

ANSWER: False

POINTS: 1

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QUESTION TYPE: True / False

HAS VARIABLES: False

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22. Carl Woese based his classification system on what he considered the more precise method of comparison called phenetics.

a. True

b. False

ANSWER: False

POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

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23. All single-celled organisms are included in the general classification of prokaryotes.

a. True

b. False

ANSWER: False

POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

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24. Eukaryotic cells are characterized by the presence of a cell nucleus.

a. True

b. False

ANSWER: True

POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

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25. The two domain system of classification included cellular and non-cellular microorganisms such as viruses and prions.

a. True

b. False

ANSWER: True

POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

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26. Fossils of ancient archaea have been found but no longer exist in modern times.

a. True

b. False

ANSWER: False

POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

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27. The human immunodeficiency virus (HIV) is an example of a retrovirus.

a. True

b. False

ANSWER: True

POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

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28. Prions are live viruses called phaginae which infect bacterial cells.

a. True

b. False

ANSWER: False

POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

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29. The taxonomic hierarchy for viruses has fewer divisions than the hierarchy for living organisms.

a. True

b. False

ANSWER: True

POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

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Name: _____ Class: _____ Date: _____

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30. The International Code of Nomenclature of Prokaryotes is also known commonly as the Bacteriological Code.

a. True

b. False

ANSWER: True

POINTS: 1

QUESTION TYPE: True / False

HAS VARIABLES: False

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