

TEST BANK

Talaro's Foundations in Microbiology

Barry Chess

11th Edition

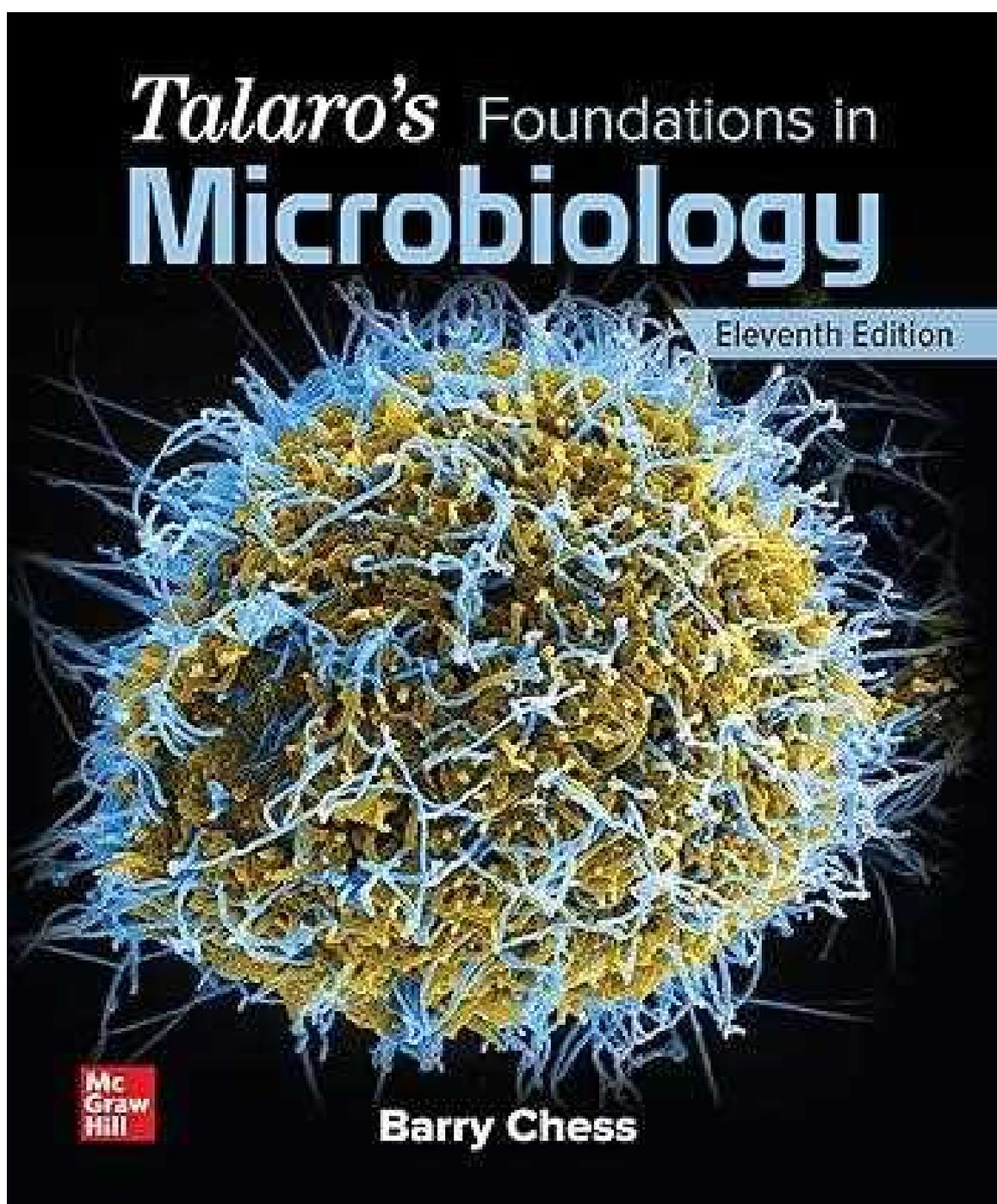


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Student name: _____

TRUE/FALSE - Write 'T' if the statement is true and 'F' if the statement is false.

1) Members of the same species share many more characteristics compared to those shared by members of the same kingdom.

- true
- false

2) Viruses are *not* classified in any of Whittaker's five kingdoms.

- true
- false

3) Members of the kingdom Fungi are photosynthetic.

- true
- false

4) A scientist studying helminths is working with bacteria.

- true
- false

5) The fossil record has established that prokaryotes existed on Earth for approximately two billion years before eukaryotes evolved.

- true
- false

6) It has been over 25 years since a new infectious disease has emerged in the world.

- true
- false

7) *The term sterile means free of all life-forms.*

- true
- false

8) All microorganisms are parasites.

- true
- false

9) During a scientific experiment, the control group is used to directly test or measure the consequences of a variable in the study.

- true
- false

10) The scientific method involves formulating a tentative explanation, called the hypothesis, to account for what has been observed or measured.

- true
- false

11) Once an organism is assigned to a particular taxonomic hierarchy, it is permanent and cannot be revised.

- true
- false

12) When the results of an experiment support a hypothesis, the hypothesis can now be considered a theory.

- true
- false

13) The names of the three proposed domains are: Bacteria, Protista, Eukarya.

- true
- false

14) One distinguishing characteristic of archaeais that they live in extreme environments.

- true
- false

15) Some microorganisms can photosynthesize, but their overall contribution to Earth's atmospheric oxygen is very small in comparison to plant photosynthesis.

- true
- false

16) Any microorganism on or in the human body is considered a pathogen.

- true
- false

17) Theories are supported by more evidence than hypotheses.

- true
- false

MULTIPLE CHOICE - Choose the one alternative that best completes the statement or answers the question.

18) Disease-causing microorganisms are called

- A) decomposers.
- B) prokaryotes.
- C) pathogens.
- D) eukaryotes.
- E) fermenters.

19) The microorganisms that recycle nutrients by breaking down dead matter and wastes are called

- A) decomposers.
- B) prokaryotes.
- C) pathogens.
- D) eukaryotes.
- E) fermenters.

20) The microorganisms that do *not* have a nucleus in their cells are called

- A) decomposers.
- B) prokaryotes.
- C) pathogens.
- D) eukaryotes.
- E) fermenters.

21) When humans manipulate the genes of microorganisms, the process is called

- A) bioremediation.
- B) genetic engineering.
- C) epidemiology.
- D) immunology.
- E) taxonomy.

22) Which of the following are *not* considered microorganisms?

- A) Mosquitoes
- B) Protozoa
- C) Bacteria
- D) Viruses
- E) Fungi

23) All microorganisms are best defined as organisms that

- A) cause humandisease.
- B) lack a cellnucleus.
- C) are infectiousparticles.
- D) are too small tobe seen with the unaided eye.
- E) can only be found growing inlaboratories.

24) Which activity is an example of biotechnology?

- A) Bacteria in the soil secrete an antibiotic to kill competitors.
- B) A microbiologist uses a microscope to study bacteria.
- C) Humans use yeast to make beer and wine.
- D) *Mycobacterium tuberculosis* causes tuberculosis in the lungs.
- E) Public health officials monitor diseases in a community.

25) Which of the following is a unique characteristic of viruses that distinguishes them from the other major groups of microorganisms?

- A) Viruses cause human disease.
- B) Virusesare composed of cells that lack nuclei.
- C) Viruses cannot be seen without an electron microscope.
- D) Viruses contain genetic material.
- E) Viruses lack ribosomes.

26) Who was the Dutch merchant that made and used quality magnifying lenses to see and record microorganisms?

- A) Francesco Redi
- B) Antonie van Leeuwenhoek
- C) Louis Pasteur
- D) Joseph Lister
- E) Robert Koch

Answer Key

Test name: ch1

- 1) TRUE
- 2) TRUE
- 3) FALSE
- 4) FALSE
- 5) TRUE
- 6) FALSE
- 7) TRUE
- 8) FALSE
- 9) FALSE
- 10) TRUE
- 11) FALSE
- 12) FALSE
- 13) FALSE
- 14) TRUE
- 15) FALSE
- 16) FALSE
- 17) TRUE
- 18) C
- 19) A
- 20) B
- 21) B
- 22) A
- 23) D
- 24) C
- 25) E
- 26) B