

Preview

chapter 1

1 This is a preview of the draft version of the quiz

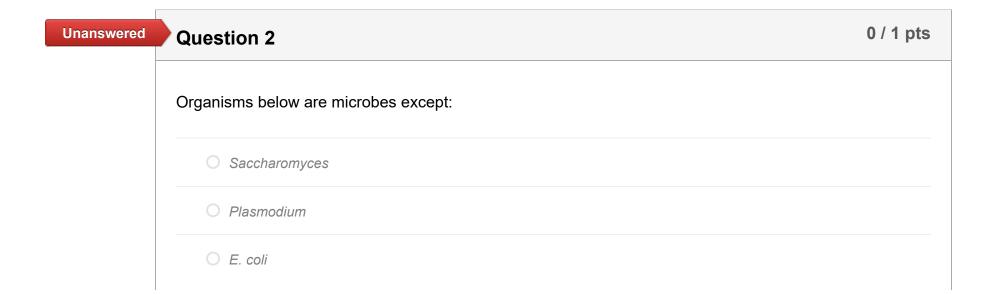
Quiz Type	Graded Quiz
Points	64
Assignment Group	Assignments
Shuffle Answers	No
Time Limit	No Time Limit
Multiple Attempts	No
View Responses	Always
Show Correct Answers	Immediately
One Question at a Time	No

Due	For	Available from	Until
-	Everyone	-	-



Score for this quiz: **0** out of 64 * Submitted Oct 17 at 7:21am This attempt took less than 1 minute.

Unanswered	Question 1	0 / 1 pts
	Microorganisms play an important role in each of the following processes except:	
	O Causing infection	
	O Decomposing organic material	
	O O ₂ production	
	O Food production	
Correct Answer	• Air pollution	



	O Methanogens
Correct Answer	○ HIV
L	

Unanswered	Question 3	0 / 1 pts
-	Disease-causing microorganisms are called	
	O microbes	
	O bactera	
	O COVID-19	
Correct Answer	O pathogens	
	O infection	

Unanswered	Question 4	0 / 1 pts
	Common commercial benefits of microorganisms include synthesis of	
	○ riboflavin	
	○ acetone	
	O insulin	
	O ethanol	
Correct Answer	• All of these	

 Unanswered
 Question 5
 0 / 1 pts

 The factors that contribute to the rising incidence of antibiotic resistance include:

and misuse of antibiotics.
ral use of antibiotics.
mutations in bacterial genomes.
avel and trade.
ese.

Unanswered	Question 6	0 / 1 pts
	The formal system for classifying and naming organisms was developed by	
	O Robert Koch	
	O Louis Pasteur	
	O Aristotle	
Correct Answer	O Carolus Linnaeus	
	O None of these	

Question 7	0 / 1 pts
In the name <i>Staphylococcus aureus</i> , <i>Staphylococcus</i> is theand <i>aureus</i> is the	·
O genus, species	
O domain, kingdom	
O species, genus	
O kingdom, domain	
O family, class	
	In the name <i>Staphylococcus aureus</i> , <i>Staphylococcus</i> is theand <i>aureus</i> is the o genus, species domain, kingdom species, genus kingdom, domain

Unanswered	Question 8	0 / 1 pts
_	A prokaryotic cell may possess all of the following except:	
	O Flagella	
Correct Answer	O A nucleus	
	O Ribosomes	

O A cell wall

O A cell membrane

Unanswered	Question 9	0 / 1 pts
	Which of the following does not belong to viruses?	
Correct Answer	O Organelles	

O Nucleic acid
O Envelope
O Capsid
O Protein coat

Unanswered	Question 10) / 1 pts
	Figure 1.1	
	The bacterial shape of the cells in the scanning electron micrograph shown in Figure 1.1 would best described as	st be
Correct Answe	r O bacillus	
	O spiral	
	O coccus	
	O ovoid	
	O columnar	

Unanswered	Question 11	0 / 1 pts
	Structures that allow extensive motility in protozoans include	
	O cilia	

	O flagella
	O pseudopods
	○ cilia and pseudopods only
Correct Answer	O cilia, flagella, and pseudopods

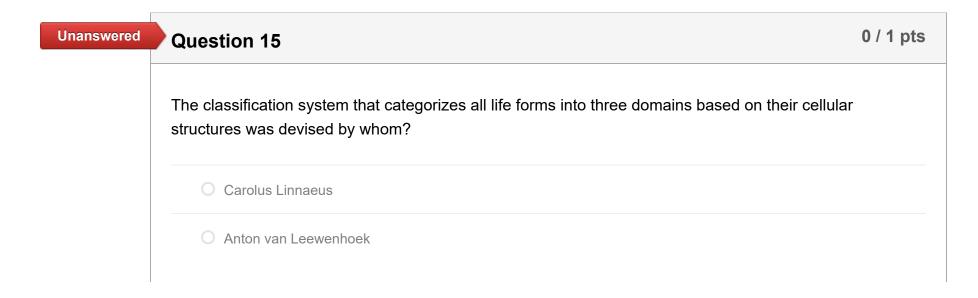


	√iruses are not considered living because they
Correct Answer	O cannot reproduce
-	○ are structurally very simple
-	○ can only be visualized using an electron microscope
-	○ are typically associated with disease
-	○ are ubiquitous in nature

Unanswered	Question 13	0 / 1 pts
	Microbes that naturally and mutualistically live in the human body and provide protection and processential vitamins and other compounds are called the	luction of
	◯ transient microbiota	
	O pathogenic microorganisms	
Correct Answer	O normal microbiota	
	O virulent microorganisms	
	O opportunistic microbiota	

Unanswered	Question 14	0 / 1 pts
	do not belong to the three domains of life.	
Correct Answer	O Viruses	
	O Archaea	
	O Bacteria	
	O Eukarya	

••



Correct Answer	r O Carl Woese
	O Louis Pasteur
	O Robert Koch

Unanswered	Question 16	0 / 1 pts
-	Archaea differ from bacteria in that archaea	
Correct Answer	O have cell walls composed of pseudomurein	
	O lack of true nuclei	
	O use organic compounds for food	
	O reproduce by binary fission	
	O are prokaryotic	

Unanswered	Question 17	0 / 1 pts
	is credited with first observing cells.	
Correct Answer	O Robert Hooke	
	O Anton van Leeuwenhoek	
	O Robert Koch	
	O Louis Pasteur	
	O Carolus Linnaeus	

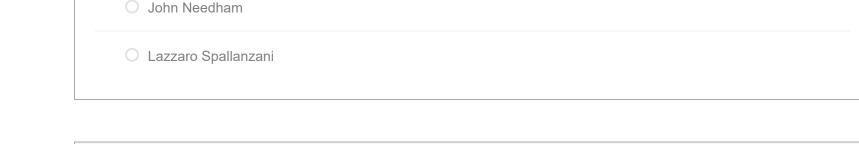
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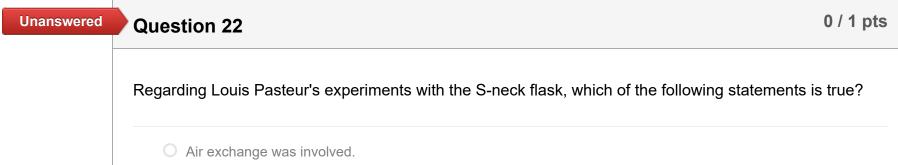
-	is credited with first observing microorganisms.
	O Robert Hooke
Correct Answer	O Anton van Leeuwenhoek
	O Robert Koch
	O Louis Pasteur
	O Carolus Linnaeus

Unanswered	Question 19	0 / 1 pts
Correct Answer	Biogenesis refers to the	
	 spontaneous generation of organisms from nonliving matter 	
	O life forms from preexisting life	
	O development of aseptic technique	
	O germ theory of disease	

Unanswered	Question 20 0 / 1 pts
	If you were setting up an experiment to disprove spontaneous generation theory in a liquid medium, which of the following would be essential to the experiment?
	O Supplying the liquid with nutrients
	O Starting with a liquid that contains microorganisms
	O Adding antibiotics to the liquid
Correct Answer	O Using a sterile liquid and preventing exposure to microorganisms
	O Adding carbon dioxide to the liquid

Unanswered	Question 21	0 / 1 pts
	The arguments supporting spontaneous generation theory were finally disproved by	
Correct Answer	O Louis Pasteur	
	O Francesco Redi	
	O Rudolf Virchow	

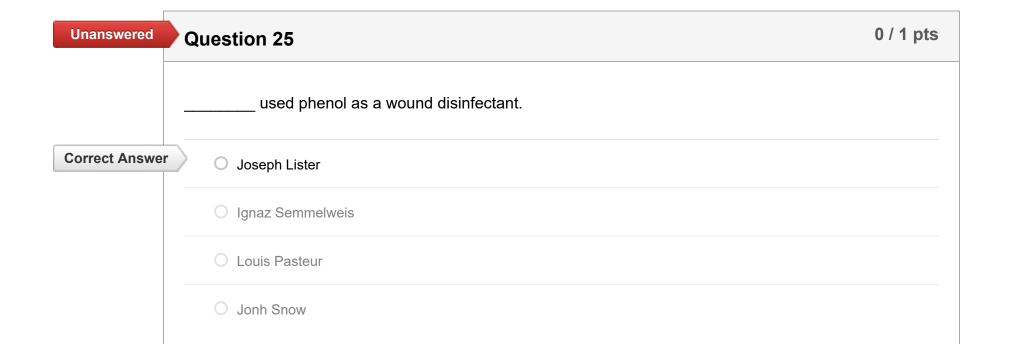




	 A food source was provided.
	O The possibility of contamination was removed.
	O All preexisting microorganisms were killed.
Correct Answer	Air exchange occurred, a food source was provided, preexisting microorganisms were killed and contamination was prevented.

Unanswered	Question 23	0 / 1 pts
_	The microbial metabolic process of converting sugars to alcohol is known as	
Correct Answer	O fermentation	
	O pasteurization	
	O tyndallization	
	O lyophilization	
	O alcoholism	

Unanswered	Question 24	0 / 1 pts
	The concept that a microbe could cause disease was established by whom?	
	O Louis Pasteur	
	O Joseph Lister	
Correct Answer	O Robert Koch	
	O August Paul von Wasserman	
	O Ignaz Semmelweis	



O Robert Koch

_		
Unanswered	Question 26	0 / 1 pts
-	Mycology is the study of	
Correct Answer	O fungi	
	O bacteria	
	◯ plants	
	○ protists	
	O animals	
L		

Unanswered	Question 27	0 / 1 pts
	discovered that a bacterium causes anthrax and provided the experimental steps to demonstrate that a specific microbe causes a specific disease. These experimental steps are ca	all the
Correct Answer	 Robert Koch, Koch's postulates 	
	O Louis Pasteur, Pasteur's postulates	
	O Robert Koch, Pasteur's postulates	
	O Louis Pasteur, Koch's postulates	
	O All of these	

Unanswered Question 28

0 / 1 pts

	O vaccination
	O natural protection
Correct Answer	• immunity
	O All of these
	O None of these

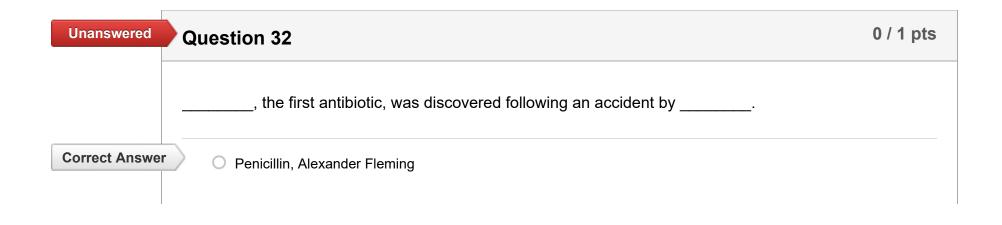
Unanswered	Question 29	0 / 1 pts
	Edward Jenner inoculated a person with cowpox virus, who was then immune from	
Correct Answer	O smallpox	
	O anthrax	
	O diphtheria	
	O AIDS	
	O rabies	

Unanswered	Question 30	0 / 1 pts
	Treatment of disease with chemicals is called	
	○ chemo	
	O medication	
	O antimicrobial therapy	
Correct Answer	O chemotherapy	
	O All of these	

Unanswered Correct Answer	Question 31	0 / 1 pts
	Which of the following findings was essential for Edward Jenner's vaccination process?	
	O Exposure to a pathogen may induce immunity.	
	○ A weakened microorganism will not cause disease.	
	O Someone who recovers from a disease will not acquire that disease again.	

Disease is caused by viruses.

O Pathogenic microorganisms infect all humans and animals in the same manner.



O Penicillin, Paul Ehrlich
O Penicillin, Edward Jenner
O Penicillin, Robert Koch
O Penicillin, Joseph Lister

Unanswered	Question 33	0 / 1 pts
	The first synthetic drugs are	
	○ salvarsan	
	O penicillin	
	O sulfonamides	
	O salvarsan and penicillin	
Correct Answei	 Salvarsan and sulfonamides 	

Unanswered	Question 34	0 / 1 pts
	Fungi are studied by	
	○ virologists	
	○ bacteriologists	
	○ parasitologists	
Correct Answer	O mycologists	
	 herpetologists 	



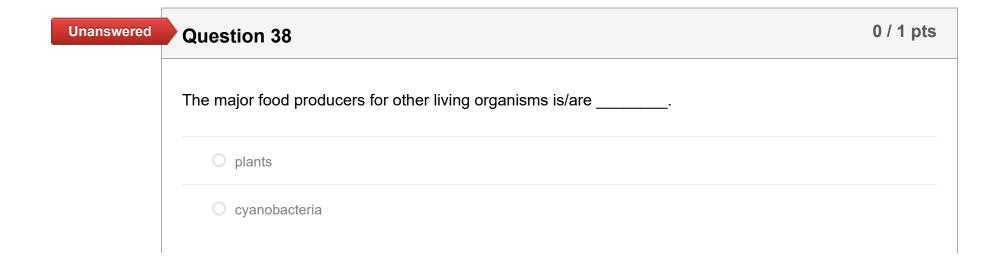
F	Recombinant DNA technology refers to the
	○ study of bacterial ribosomes
	○ study of the function of genes
	O interaction between human and bacterial cells
	○ synthesis of proteins from genes
Correct Answer	O DNA made from two different sources

Unanswered	Question 36	0 / 1 pts
	Molecular biology includes the study of	
	O DNA replication	
	O transcription	
	○ translation	
	regulation of gene expression	
Correct Answer	O All of these	

Unanswered	Question 37	0 / 1 pts
	Microorganisms are essential to our life. The following are some examples of benefits except:	
	O Alternative fuel production	
	O Bioremediation	
	O Gene therapy	
	O Agriculture	

	C	0	rr	eci	: AI	nsı	wer	
--	---	---	----	-----	------	-----	-----	--

O Robotic production



	O algae
Correct Answer	O All of these
	O None of these

Unanswered	Question 39	0 / 1 pts
	Recombinant DNA technology can apply in all except:	
	O Vaccine production	
	O Gene therapy	
	O Hormone synthesis	
	O Drug production	
Correct Answer	O Cloning humans	

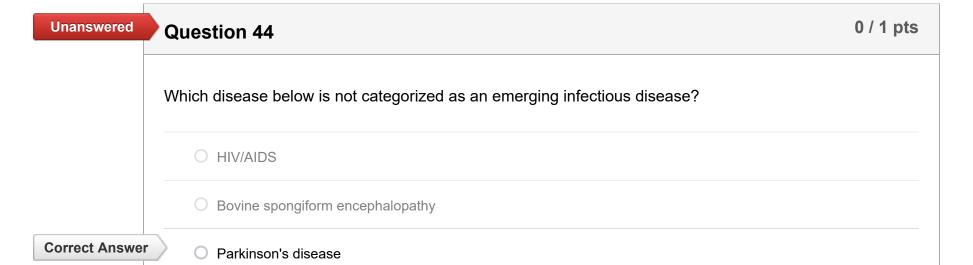
Unanswered	Question 40	0 / 1 pts
	Which statement below is false about normal microbiota?	
	O Normal microbiota colonize the body permanently.	
	O Normal microbiota provide protection.	
Correct Answer	O Normal microbiota cannot cause diseases.	
	O Normal microbiota can provide essential vitamins and antimicrobial compounds.	
	O Normal microbiota is distinct from person to person.	

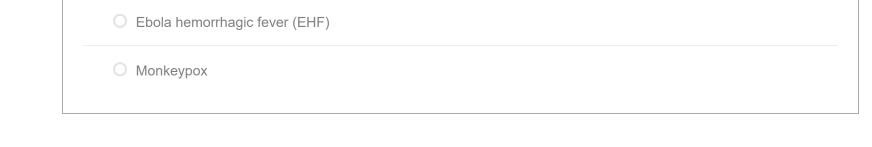
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	Which of the following statements about biofilms is false?
Correct Answer	O Biofilms are more sensitive to antibiotics.
	O Biofilms in pipes can block the flow of water.
	O Biofilms in your body protect mucous membranes from harmful microbes.
	O Biofilms on medical devices cause infections.
	O Biofilms on rocks provide food for animal life.

Unanswered	Question 42	0 / 1 pts
	Development of emerging infectious disease can be a result of the following except:	
	O Microbial mutation	
	O Modern transportation	
Correct Answer	O Vaccination of COVID-19	
	O Changes in the environment	
	Overuse of antibiotics	

Unanswered	Question 43	0 / 1 pts
	All of the following are true concerning emerging infectious diseases except:	
Correct Answer	O They always involve sporadic cases in endemic areas.	
	 They include newly described infectious agents. 	
	Known pathogens develop variants such as SARS-CoV-2 and COVID-19.	
	 Known diseases spread to new regions or populations. 	
	O They result from human exposure to a pathogen due to ecological changes.	





Unanswered	Question 45	0 / 1 pts
	The below are examples of a biofilm except:	
Correct Answe	 Archaea as part of the plankton community in the open ocean 	

0	Dental plaque
0	Vegetations on a patient heart valve
0	Slimy layer on riverbed rocks
0	Infection of a patient catheter

Unanswered	Question 46	0 / 1 pts
	Infectious disease is almost totally eradicated in our world.	
	O True	
Correct Answer	O False	
L		
Unanswered	Question 47	0 / 1 pts

	A student has obtained a sample of pond water for study. Using the high-power objective lens from a light microscope, he observes several cells with nuclei. He concludes that the cells are not bacteria.
Correct Answer	O True
	O False

Unanswered	Question 48	0 / 1 pts
	Pasteurization is the process of removing most food spoilage causing pathogens by utilizing high temperature to kill all microorganisms present.	ı
	O True	
Correct Answei	O False	

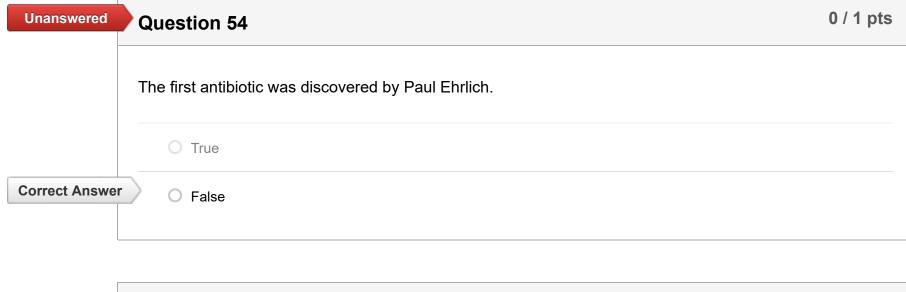
Question 49	0 / 1 pts
Anton van Leeuwenhoek was the first microbiologist to use a microscope to examine environme samples for the presence of microorganisms.	ental
O True	
O False	
	Anton van Leeuwenhoek was the first microbiologist to use a microscope to examine environme samples for the presence of microorganisms.

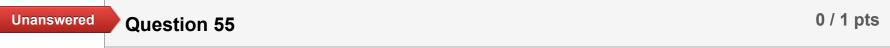
Unanswered	Question 50	0 / 1 pts
	Spontaneous generation theory refers to living cells arising from preexisting cells.	
	O True	
Correct Answer	O False	

Unanswered	Question 51	0 / 1 pts
	Most microbes are dangerous.	
	O True	
Correct Answe	O False	

Unanswered	Question 52	0 / 1 pts
	All cells possess a cell wall.	
	O True	
Correct Answer	O False	

Unanswered	Question 53	0 / 1 pts
	All pathogens known to infect humans have been identified.	
	O True	
Correct Answer	O False	





Enzymes from <i>Bacillus</i> and some other microbes can be used to remove stains on clothing.
O True
O False

Unanswered	Question 56	0 / 1 pts
	Missing or defective genes in human cells can be replaced in gene therapy.	
Correct Answer	O True	
	O False	

Unanswered	Question 57	0 / 1 pts
	Emerging infectious diseases (EIDs) are new diseases and diseases increasing in incidence.	
Correct Answe	O True	
	O False	

Unanswered	Question 58	0 / 1 pts
	Resistance factors include skin, stomach acid, antimicrobial chemicals, and surgery.	
	O True	
Correct Answer	O False	

	Zika virus, COVID-19, Ebola virus, and small pox virus are examples of emerging infectious pathogens.		
	O True		
Correct Answer	O False		
L			
Unanswered	Question 60	Not yet graded / 1 pts	
	List and describe an emerging infectious disease that you know. V	Vhat are some possible causes of this	

emerging infectious disease?

Your Answer:

Unanswered	Question 61	Not yet graded / 1 pts
	Differentiate prokaryotic and eukaryotic cells based on the cell stru reproductions.	uctures, metabolism, habitats, and
	Your Answer:	
Unanswered	Question 62	Not yet graded / 1 pts
	Describe the function and the importance of S-necked flasks in Louis Pasteur's experiments in disproving spontaneous generation theory?	
	Your Answer:	
Unanswered	Question 63	Not yet graded / 1 pts

Explain the germ theory of disease and discuss why this theory is important.
Explain the germ theory of decided and decided with the theory is important.

Your Answer:

Unanswered	Question 64	Not yet graded / 1 pts
	Explain the concepts of normal microbiota and transient microbiota an pathogenicity.	nd discuss the effect of their
	Your Answer:	