https://selldocx.com/products/test-bank-talaros-foundations-in-microbiology-basic-principles-11e-chess

Stude	ent nar	me:	
if the 1) charac	statem Meml	SE - Write 'T' if the statement is true and 'F' ent is false. Deers of the same species share many more s compared to those shared by members of the m.	
	<!--</th--><th>true false</th><th></th>	true false	
2) kingdo		es are <i>not</i> classified in any of Whittaker's five	
	©	true false	
3)	Mem	pers of the kingdom Fungi are photosynthetic.	
	00	true false	
4) bacter		entist studying helminths is working with	
	©	true false	
		ossil record has established that prokaryotes orth for approximately two billion years before volved.	
	<!--</td--><td>true false</td><td></td>	true false	
6)	It has	been over 25 years since a new infectious	disease has emerged in the

world.			
	⊚ ⊚	true false	
7)	The ter	m sterile means free of all life-forms.	
	⊚ ⊚	true false	
8)	All mic	croorganisms are parasites.	
	⊚ ⊚	true false	
-	directly	g a scientific experiment, the control group is y test or measure the consequences of a variable	
	⊚ ⊚	true false	
10) explana		ientific method involves formulating a tentative alled the hypothesis, to account for what has true	been observed or measured.
	©	false	
11) taxono		n organism is assigned to a particular rarchy, it is permanent and cannot be revised.	
	⊚ ⊚	true false	

12) When the results of an experiment support a

hypothesis, the hypothesis

- o true
- ⊙ false

13) Bacter		ames of the three proposed domains are: ista, Eukarya.	
	••	true false	
14) live in		istinguishing characteristic of archaeais that they e environments.	
	©	true false	
15) overall		microorganisms can photosynthesize, but their bution to Earth's atmospheric oxygen is very	small in comparison to plant photosynthesis.
	<!--</th--><th>true false</th><th></th>	true false	
16) consid	=	nicroorganism on or in the human body is pathogen.	
	<!--</th--><th>true false</th><th></th>	true false	
17) hypoth		ies are supported by more evidence than	
	<!--</th--><th>true false</th><th></th>	true false	
		CHOICE - Choose the one alternative that es the statement or answers the question.	18) Disease-causing microorganisms are called
		ecomposers. rokaryotes.	

- C) pathogens.
- D) eukaryotes.
- E) fermenters.

19) down		e microorganisms that recycle nutrients by breaking matter and wastes are called		
	A) B)	decomposers. prokaryotes.	C) D) E)	pathogens. eukaryotes. fermenters.
20) their o		e microorganisms that do <i>not</i> have a nucleus in are called		
	A) B)	decomposers. prokaryotes.	C) D) E)	pathogens. eukaryotes. fermenters.
21) micro		en humans manipulate the genes of nisms, the process is called		
	A) B)	bioremediation. genetic engineering.	C) D) E)	epidemiology immunology. taxonomy.
22) micro		ich of the following are <i>not</i> considered nisms?		
	A) B)	Mosquitoes Protozoa	C) D) E)	Bacteria Viruses Fungi
23)	All	microorganisms are best defined as organisms that		
	A)	cause human disease.	B) nucleus.	lack a cell

	E)	can only be found growing in laboratories.		
24)	Whi	ch activity is an example of biotechnology?		
compe			officials mo	Public health onitor diseases
bacter	B)	A microbiologist uses a microscope to study	in a commu	ınıty.
oucter	C) D)	Humans use yeast to make beer and wine. Mycobacterium tuberculosis causes tuberculosis		
25) viruse microo	s that	ch of the following is a unique characteristic of distinguishes them from the other major groups of isms?		
micros	B) C)	Viruses cause human disease. Virusesare composed of cells that lack nuclei. Viruses cannot be seen without an electron.	D) contain gen E) ribosomes.	Viruses etic material. Viruses lack
26) quality		o was the Dutch merchant that made and used mifying lenses to see and record microorganisms?		
	A) B)	Francesco Redi Antonie van Leeuwenhoek	C) D) E)	Louis Pasteur Joseph Lister Robert Koch
27) prove		eur used swan-neck flasks in his experiments to		
			A)	air had "vital

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C) are infectious particles.

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D) are too small to be seen with the unaided eye.

forces" capable of spontaneous generation. E) microbial fermentation could be used to make microorganisms could be wine. grown in laboratory infusions. dust in air was a source of living microorganisms. microorganisms could cause disease. 28) Which of the following is *not* a process in the scientific method? D) Laboratory experimentation A) Belief in a preconceived idea B) Formulation of a hypothesis E) Development C) Systematic observation of a theory 29) Spontaneous generation is the idea that settings. A) germs cause infectious diseases. E) living things B) microbes are diverse and ubiquitous. arise from nonliving C) microbes placed in an infusion can grow in it. matter. D) aseptic techniques reduce microbes in medical 30) Koch's postulates are criteria used to establish that specific kingdom. E) microbes can A) microbes are found on dust particles. a specific microbe is the cause of a specific be used to clean up toxic disease. spills. life-forms can only arise from preexisting lifeforms. D) a specific microbe should be classified in a

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A) Species

Which of the following is a taxon that contains all the

31)

other taxa listed?

	B)	Phylum	D)	Genus
	C)	Kingdom	E)	Family
32)	Wh	ich of the following is a scientific name?		
			D)	Bacillus
	A)	Bacteria	subtilis	
	B)	Protista	E)	Bacilli
	C)	Species		
33)	Tax	onomy does <i>not</i> involve		
,		-	ъ,	
	A \		D)	identification.
	A) B)	nomenclature. classification.	E)	Koch's
	C)	taxa.	postulates.	
	C)	w.		
34)	The	smallest taxon is		
			C)	kingdom.
	A)	genus.	D)	family.
	B)	species.	E)	phylum.
35)		study of evolutionary relationships among		
organi	isms	is called		
			D)	phylogeny.
	A)	biotechnology.	E)	taxonomy.
	B)	genetics.	,	Ĵ
	C)	recombinant DNA.		
36)	A so	cientist studying similarities in the sequence of		

nucleotides in rRNA of two bacterial species is working on

			at species is the cause of new disease.		
_	-celle	cientist discovers a new microbial species. It is a ed eukaryote without cell walls. In which kingdom y be classified?			
	A) B) C)	Monera Protista Fungi	D) E)	Animalia Plantae	
38) of an	outbr	cientist collecting grass clippings to find the source eak of tularemia is an example of working in the			
	A) B) C)	food microbiology. epidemiology. agricultural microbiology.	D) engineering E)	genetic g. biotechnology.	
39)	Hel	minths are			
	A) B) C)	bacteria. protozoa. molds.	D) worms. E) particles.	parasitic infectious	
40)	All	of the following pertain to photosynthesis, except			
	A)	it occurs only in members of the kingdom Plantae	B) is converted material.	carbon dioxide I to organic	

A) determining evolutionary relatedness.

D) nomenclature.

E) determining if

A) Joseph Lister B) Ignaz Semmelweis C) Robert Koch 43) Which scientist showed that anthrax was caused by the bacterium Bacillus anthracis? D) Louis Paste A) Joseph Lister B) Ignaz Semmelweis Leeuwenhoek	atmospł	C) it contributes to the oxygen content in the here. D) it is fueled by light.	E) it is important to each ecosystem's flow of energy and food.
disinfectants on hands and in the air prior to surgery? D) Louis Paste A) Joseph Lister B) Ignaz Semmelweis C) Robert Koch 43) Which scientist showed that anthrax was caused by the bacterium Bacillus anthracis? D) Louis Paste E) Antonie van B) Ignaz Semmelweis Leeuwenhoek]	A) always classified in the kingdom Monera.B) always harmful to their host.	viruses.
bacterium Bacillus anthracis? D) Louis Paste A) Joseph Lister B) Ignaz Semmelweis Leeuwenhoek	disinfec	A) Joseph Lister B) Ignaz Semmelweis	E) Antonie van
C) Robert Roch	bacteriu	A) Joseph Lister	E) Antonie van
44) Which of the following lists the correct descending taxonomic hierarchy (left to right)? D) Class, A) Family, Order, Class Phylum, Order B) Family, Genus, Species C) Genus, Species, Family Domain, Phylum	taxonon	A) Family, Order, Class B) Family, Genus, Species	Phylum, Order E) Kingdom,

45)	Wh	en assigning a scientific name to an organism,			
	A) B) C) D)	the species name is capitalized. the species name is placed first. the species name can be abbreviated. both genus and species names are capitalized.	species		both genus and nes are underlined.
46) classin		Whittaker's system, the protozoa and algae are a the kingdom			
	A) B)	Monera. Protista.		C) D) E)	Mycetae. Plantae. Animalia.
47) one of		scientist(s) that proposed assigning organisms to e domains is/are			
	A) B) C)	Robert Koch and Louis Pasteur. Antonie van Leeuwenhoek. Carl Woese and George Fox.	Whittal	D) ker. E)	Robert Francesco
48)	Wh	ich kingdom does not contain any eukaryotes?			
	A) B)	Monera Protista		C) D) E)	Mycetae Plantae Animalia
49) the Ea		ich of the following are the main decomposers of			
	A)	Bacteria and fungi	viruses	C)	Algae and
	B)	Bacteria and viruses		D)	Protists and

fungi

17	A 11	•	1	
\mathbf{E}) All organ	isms are	decom	nosers
	, min organi	isilis alc	accom	posers.

50)	The most common	infectious	cause of	death
worldw	vide is			

C) heart disease.

D) cancer.

E) malaria.

A) HIV/AIDS.

B) stroke.

51) Which of the following diseases is transmitted by mosquitoes?

C) Malaria

D) Septicemia

B) Tuberculosis

A) Diarrheal diseases

E) Influenza

52) All of the following are correct about prokaryotes, *except*

A) they are smaller than eukaryotes.

D) they have organelles.

B) they lack a nucleus.

C) they are less complex than eukaryotes.

E) they are found nearly everywhere.

53) All of the following contribute to the rise of emerging diseases, *except*

A) the decrease in drug-resistant bacteria.

B) human encroachment on wild habitats.

C) changes in agricultural practices.

D) human populations are more mobile.

54) Wh	nich scientist discovered heat-resistant bacterial	spores	?	
A) B) C)	Joseph Lister Ignaz Semmelweis Robert Koch	Cohn	E)	Ferdinand Antonie van
*	nich of the following is the correct way to write the name of this bacterium?			
A) B) C)	Staph Aureus Staphylococcus Aureus Staphylococcus aureus	Staphy	D) <u>vloco</u> E)	ccus Aureus S. Aureus
*	nere are you most likely to find prokaryotes to the domain Archaea?			
A) B) C)	A human's large intestine A hot spring A pond	treatme	E)	A sewage lant A beer facility
	nen microbes are introduced into the environment to bility, the process is called			
A) B)	bioremediation. genetic engineering.		C) D) E)	epidemiology. immunology. taxonomy.
*	which of the following conditions is/are microbial ften implicated as a cause?		A)	Gastric ulcers

B) Female infertility

- C) Coronary artery disease
- D) Cervical cancer

E) All of the choices are correct.

59) Cyanide is a chemical used to dissolve gold and is harmful to the environment and organisms living there. A couple of biochemists came up with the idea of using the bacteria in the genus *Pseudomonas* to break down the

cyanide used by a gold mining company. Which term refers to this use of bacteria?

- A) Bioremediation
- B) Immunoextraction
- C) Decomposition

- D) Bioextraction
- E) Biosynthesis

60) Which of the following branches of Microbiology is utilized in diagnosing or treating someone who has broken out in hives and is experiencing respiratory distress due to an

exposure to a microbial toxin?

- A) Agricultural Microbiology
- B) Epidemiology
- C) Biotechnology

- D) Immunology
- E) Industrial Microbiology

61) The nurse in an emergency department is reviewing discharge instructions with a client. The client asks for clarification of a zoonosis, in regards to the type of illness.

What is the *best* response by the nurse?

- A) A zoonosis refers to any viral disease.
- B) A zoonosis is any disease which can be successfully treated with antibiotics.
 - C) A zoonosis is a disease typically found in

animals, but which infects humans.

- D) A zoonosis is a disease caused by a eukaryotic parasite.
- **62)** A scientist that constructs a hypothesis and

then tests its validity by outlining predicted events of the hypothesis followed by experimenting to test for those events is using the _____approach.

- A) inductive
- B) deductive

C) instructiveD) trial-and-error

- 63) Recently Zika virus has been in the news, with many cases in Central and South America and increasing numbers of cases in the southern United States. Five years ago this virus was essentially unheard of in these areas. This is an example of
 - A) an endemic virus.
 - B) an emerging infectious disease.

- C) genetic recombination.
 - D) a pandemic.

- 64) Numerous cases of microcephaly have been observed in the newborn babies of women who were infected with Zika virus during pregnancy. This led to the proposed hypothesis that Zika virus was causing the birth defects. This is an example of
 - A) hypothesis testing.
 - B) deductive reasoning.
 - C) inductive reasoning.

D) theory development.

65) You identify a new species of microorganism in an undersea thermal vent. The microbe is a single cell organism that lacks a nucleus. Which Domain would you classify your

new species as belonging to?

- A) Domain Archaea
- B) Domain Bacteria
- C) Domain Eukarya

D) None of the answers are correct.

66) A scientist makes a hypothesis that increas susceptibility to mosquito bites has a genetic basis	
 A) She should present the data that promhypothesis to get feedback from other scientists. B) She should repeat the experiments that this hypothesis. C) She should propose a theory based or 	D) She should design a set of experiments that will test her hypothesis
67) Which of the following is the <i>least</i> useful information to determine the evolutionary related species?	
 A) The environments they live in. B) Their DNA sequences. C) The morphological features that they common. 	D) All of the answers are important for determining evolutionary relatedness.
FILL IN THE BLANK. Write the word or phr best completes each statement or answers the quality of the scientific field called is it	question. classification, and naming
69) The area of biology that states that living tundergo gradual structural and functional changes	
70) Living things ordinarily too small to be sequenced eye are termed	en with the
71) Microorganisms composed only of heredit wrapped in a protein covering are referred to as	•

72) Specialized internal structures, called, are found in eukaryotes but not in prokaryotes.	
73) Well-known diseases that are increasing in occurence are referred to as diseases.	
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question. 74) Discuss three different beneficial consequences and three different detrimental consequences of killing all	microorganisms on the Earth.
75) Discuss five reasons why infectious diseases are increasing in number around the world.	
76) Outline the experiment that Louis Pasteur did with swan-necked-shaped tubes to disprove spontaneous generation.	
77) Predict one reason why water contaminated by the	

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algae Microcystiscannot be made safe by boiling.

78) Cases of chikungunya virus in the United States are primarily restricted to Florida and the Southeastern coast.

Briefly explain a reason for this distribution.

79) Briefly explain (1) why hospitals are such a common source of infectious disease and (2) why aseptic technique limits infection.

Answer Key

Test name: Chapter 01 Test Bank

- 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
- 27) C
- 28) A
- 29) E
- 30) B
- 31) C
- 32) D
- 33) E
- 34) B
- 35) D
- 36) A
- 37) B
- 38) B
- 39) D
- 40) A

- 41) B
- 42) A
- 43) C
- 44) B
- 45) E
- 46) B
- 47) C
- 48) A
- 49) A
- 50) A
- 51) C
- 52) D
- 53) A
- 54) D
- 55) C
- 56) B
- 57) A
- 58) E
- 59) A
- 60) D
- 61) C

- 62) B
- 63) B
- 64) C
- 65) A
- 66) C
- 67) A
- 68) taxonomy
- 69) Evolution
- 70) microorganisms
- 71) viruses
- 72) organelles
- 73) reemerging
- 74) Answer may vary
- 75) Answer may vary
- 76) Answer may vary
- 77) Answer may vary
- 78) Answer may vary
- 79) Answer may vary