Name	Class	Date
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# **SECTION 19-1 REVIEW**

# **BACTERIA**

				juish between the t				-
bacillu								
				1				
Gram-p	ositi	ve bacteria, Gra	m-nega	ative bacteria				
	Е СН	OICE Write	the c	correct letter in the	blank.			
1.	a.	cocci		bacilli	c.			filamentous
2.				not find in a bacterial c		spiriia	u.	mamentous
	a.	cell wall.	b.	cell membrane.	c.	nucleus.	d.	chromosome.
3.	Wł	nich of the follow	ving is	not a method of move	ment used	by bacteria?		
	a. b.	gliding through	-	er of slime w-like motion	c. d.		-	contractile vacuole
4.	Arc	chaebacteria and	eubac	teria are placed in sepa	ırate king	doms because arc	haebacte	ria
		lack cell walls have cell walls		ontain peptidoglycan.		evolved after eul have cell walls th		eptidoglycan.
4.	Wł	nich type of bact	eria ca	n live with or without t	he presen	ce of oxygen?		
	a. b.	only obligate a			c. d.	facultative anaer all bacteria	obes	
5.	Th	e process by whi	ch two	living bacteria bind to	gether an	d transfer genetic	material	is called
	a.	conjugation.	b.	transformation.	c.	transduction.	d.	encapsulation.

Naı	ne	Class	Date					
sн	SHORT ANSWER Answer the questions in the space provided.							
1.	Why do some bacteria retain the Gram stain while other	rs do not? (p.473)						
2.	What characteristics are predicted when a bacterium ret	ains the Gram positive stain?	(p.473)					
2		1 ( 456 455)						
3.	Identify two ecologically important characteristics of cy	anobacteria. (pp.4/6-4//)						
4.	Explain how aerobic organisms depended on the process	ss of photosynthesis. (p.474)_						
5.	What are methanogens, and where do they live? (p.472)	)						
6.	What are some characteristics of prokaryotes? (p.471)_							
	RUCTURES AND FUNCTIONS Label each drawing cus, streptococcus, spirillum, and bacillus. (p.473)	below with the most appropr	riate term from the following list:					
coc	eus, streptococcus, spirmum, and bacinus. (p.473)							
		Λ <b>.</b>						
			85					
			O 9					
		Mille	9					
		~ <i>D</i> 0						
1	2	3	4					

Name	Class	Date
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## **SECTION 19-2 REVIEW**

# **VIRUSES**

oc,	ABUL	ARY REVIEW Define the following terms.
r		rus
ly 	tic cy	cle
UL	ΓIPLE	E CHOICE Write the correct letter in the blank.
	1.	Viruses can reproduce
		a. independently of host cells.
		b. independently of host cells if they first take up organelles from the host cells.
		c. only within host cells.
		d. only with the assistance of other viruses.
	2.	Many viruses infect only a certain type of cell because they recognize
		a. receptor sites on the cell's surface.
		b. a particular sequence of nucleotides in the cell's genome.
		c. the shape of the cell.
		d. other viruses of the same kind inside the cell.
	3.	During the lytic cycle,
		a. a virus replicates within the host cell for an extended time without killing the cell.
		b. the host cell's genome is incorporated into the viral capsid.
		c. a virus replicates within the host cell and soon after kills it.
		d. one of the enzymes coded for by the viral genome causes the host cell to disintegrate.
	4.	During the lysogenic cycle,
		a. a virus causes the immediate lysis of the host cell.
		b. the viral DNA is integrated into the host cell's DNA.
		c viral DNA remains within the capsid on the surface of the host cell

d. radiation causes the host cell to become virulent.

Var	me		Class		Date	
Н	ORT ANSWER A	Answer the questions	in the space provide	ed.		
		res that are characteristic				
	Are viruses alive?	Explain your answer. (p	p.482-483)			
	What happens when	n retroviruses infect a cel	ll? (p.482)			
	What are bacteriopl	hages? (p.479)				
ei	r correct order and be chment, entry, and r	gs has been scrambled. I briefly describing what is release.	happening in each step.	Use the following term	s: assembly, replication,	
	2 <sup>nd</sup>					
	4 <sup>th</sup> 5					

Name	Class	Date
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### **SECTION 19-3 REVIEW**

# **DISEASES CAUSED BY BACTERIA AND VIRUSES**

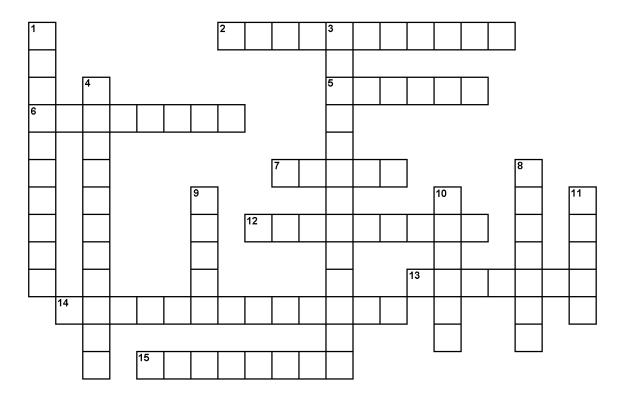
CABUL	ARY RE	VIEW De	efine the	following term	ıs.			
viroid								
	Е СНОІС			ect letter in the				
1.	Antibio	ics are comp	ounds tha	nt can				
		upt a virus's rfere with th		netabolism. ction of a virus.	c. d.	control a vira		oduction of bacteria
2.	Viruses	have more d	ifficulty e	ntering plant cells	s than anir	nal cells becau	se	
		nt cells have nal cells hav			c. d.	nitrogen fixat animal cells h		
3.	A viroid	is an infecti	ous partic	ele that contains of	nly			
	a. DN	A.	b.	protein.	c.	RNA.	d.	ATP.
4.	A prion	is an infection	ous partic	e that contains or	nly			
	a. DN	A.	b.	protein.	c.	RNA.	d.	ATP.
5.	What ca	n a vaccine	do when i	t is injected into t	he body?			
	b. pro	duce toxins t bacterial cel	hat disrup	ce immunity to a of bacterial metabol d they arise in the l	olism			

Nan	Name Class	Date
SHO	SHORT ANSWER Answer the questions in the space provided.	
1.	1. How are the causes of tuberculosis and strep throat different? (p.488)	
2.	2. Explain the four ways to prevent and control bacterial disease or growth. (pp.48	36-487)
3.	3. Name four viruses that can cause diseases that are often fatal. (p.488)	
4.	4. What is the difference between a viroid and a prion? (p.490)	
5.	5. What are the two general ways that bacteria cause disease? (p.485)	
pape area bact	STRUCTURES AND FUNCTIONS The diagram below shows a Petri dish conta paper disks (labeled A - D) treated with different antibiotics. The concentration of a areas on the dish indicate bacterial growth, and clear areas indicate inhibition of bact bacteria in this culture are very sensitive, moderately sensitive, or insensitive to ea (p.486)	ining a bacterial culture and four Il four antibiotics are the same. Dark erial growth. State whether the
A.	A	
В.	B	B
C.	C	(D)
D.	D	

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#### **VOCABULARY - CHAPTER 19**

The crossword puzzle is a simple way to master some of the more important vocabulary terms in this chapter.



Across

- 2. drugs that are not effective in viral-disease prevention or treatment
- 5. the protein covering of a virus
- 6. place where a virus attaches to a host cell
- 7. a biologically active particle composed of nucleic acid and proteins
- 12. the viral nucleic acid becomes integrated into the host cell's DNA during the \_\_\_\_\_ reproductive cycle
- 13. Wendell Stanley is best known for his work with the mosaic virus
- 14. reverse \_\_\_\_\_ is an enzyme that forms a DNA copy from an RNA copy
- 15. a membrane on the outside of some viruses that was created when the virus left the infected host cell

Down

- 1. HIV is a \_\_\_\_\_; it has RNA as its nucleic acid and an enzyme that copies RNA into DNA
- 3. a virus that attacks or infects bacteria
- 4. a viral shape made from 20 triangular pieces
- 8. a virus that has a \_\_\_\_\_ structure would appear as a spiral shape
- 9. the \_\_\_\_\_ cycle occurs when a virus invades and destroys a host cell soon after its entry
- 10. an infectious RNA molecule that affects plants
- 11. an infectious protein that is responsible for some diseases like Mad Cow's disease

The following words are **not** in this chapter. Use a reference book and look up the meanings to them. **receptor**, **transcriptase**, **envelope**, **icosahedron**, **and helical**.