Microbial physiology questions sheet

Classification of organisms

:	1.	What is the current classification system used for organisms?
	2.	Why were small subunit RNA used?
3	3.	sequences mutate slower than sequences.
4	4.	Name two prokaryotic microbes and three eukayotic microbes.
į	5.	What makes the cell walls of bacteria and archea?
(6.	Draw the flow tree of bacteria classification.
	7.	Gram positive bacteria are colour and gram negative are colour.
8	8.	What came first? Gram negative or positive?
9	9.	What is peptidoglycan made of?
:	10.	Name two things present only on gram positive cell walls?
:	11.	Give a use and an example of alpha, beta and gamma proteobacteria.
:	12.	What are firmicutes?
:	13.	Archea are more related to than
:	14.	Name three similarities of arehcea and bacteria.
	15.	Name the three types of thermophiles.
	16.	What are fungi cell walls composed of ?
	17.	Name a unicellular and multicellular example of fungi.
	18.	Do protozoa have introns?
	19.	State three similarities between Protozoa and Algae.
_		Do protozoa have introns? State three similarities between Protozoa and Algae. mental categories of microbes State three things that anabolic reactions neto. Why do anabolic reactions te delergy? What is the specialtic longanelle in cyanobacteria called and what does it contain? Why do
Func	dan	nental categories of microbes
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	2.	Why do anabolic reactions teld ergy?
	3.	What is the special to lorganelle in cyanghacteria called and what does it contain? Why do
		DAGE DAGE
4	\ \	Disect the following terms; photolithotrophy,
		photoorganotryphy,chemorganotrphy,chemolithotrophy, heterotrophs, autotrophs.
į	5.	lives close to mine drains and converts to They also covert to
		sulphates. They thrive in conditions.
Bacterial growth		
	1.	Name four ways of bacterial growth and explain each in brief detail.
		State four requirements of replication.
		Describe the separation process of the bacterial cells that have replicated.
		Where is DNA replicated?
		State three ways of counting bacteria and state the pros and cons of each.
		Draw the bacterial growth curve and explain each stage.
		Average doubling time =
		Under conditions, doubling occurs at regular intervals and results in
•	٥.	growth.
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