Bacterial growth

1.	Name four ways of bacterial growth and explain each in brief detail.
	Binary fission
	Multiple fission
	Budding
	sporulation
2.	State four requirements of replication.
	DNA replication finished before the separation
	Correct septum positioning
	Chromosomes move to opposite poles
	Biosynthesis
3.	Describe the separation process of the bacterial cells that have replicated.
	Ftsz proteins form contractile ring and the min proteins determine correct place for septum
4.	Where is DNA replicated?
	Membrane bound replication Factory
5.	State three ways of counting bacteria and state the pros and cons of each.
	Spectrophotometer
	Counting chamber
	Dilution and cell plating
6.	Average doubling time =
	Mean generation time
7.	Under conditions, doubling occurs at regular in and results in
	growth
	Constant, exponential
	2 O1
DNA ir	bacteria de S
1	Cyanobacteria has about copies of its chromosome in each cell.
т.	10
2	Bacterial nucleid has60%,30% and10%.
۷.	DNA,RNA and protein
3.	How many replication points do bacterial DNA have?
5.	One
1	Bacterial genome takes minimum 30 minutes to replicate. But mean doubling time could be
٦.	10 minutes, How?
5.	Daughter cells copy before end of transcription
5. 6.	How many different ways can DNA be read?
0.	6
7.	Do bacteria have exons?
7.	Yes
8.	
ο.	Small genome is less complex organisms
	Minimal set of genes for viability
	Evolutionary Diversity
	Organisation of genes in operons
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