

## Questions

1. How are the nucleotide monomers connected to form a polynucleotide?
2. What are the differences between DNA and RNA?
3. Give an example of cell organelle in which rRNA can be found.
4. Write at least three functions of the proteins.

5. Fill in:

Denatured proteins become non-functional because they lose .....

1. their specific spatial structure    2. their primary structure    3. the genes encoding them

6. Prions .....

(cause viral infections; can infect mammals; can never infect humans; mainly infect other prions)

7. What is true about viruses? (yes/no)

Viruses never attack eukaryotes	
Viruses are prokaryotes	
They can attack both bacteria and eukaryotes	
Viruses cannot survive if oxygen is present	

8. The bacterial chromosome contains .....

(only proteins; DNA and proteins; RNA and never DNA; polysaccharides)

9. Which statements about bacteria are true, and which are false? (true/false)

Some species can endure extreme conditions	
Bacteria have no flagella	
Bacteria can be attacked by viruses	
In favorable conditions bacteria can divide every 20 minutes	

10. What is the purpose of bacterial spores, when do they get formed?