

Nucleic Acids

Answers

1. 46
2. Nucleus
3. Nucleotides
4. Components of a nucleotide
 - a. Sugar
 - b. Phosphate
 - c. Nitrogenous base
5. 5
6. Purines
7. Pyrimidines
8. Uracil
9. Double helix
10. Glycosidic
11. Phosphodiester
12. Antiparallel
13. Hydrogen
14. 3'
15. Thymine
16. Cytosine
17. 2, 3
18. How are RNA molecules different from DNA molecules:

Characteristic	DNA	RNA
Structure	Double helix	Single strand
Nucleotides	A, T, C, G	A, U, C, G
Sugar	Deoxyribose	Ribose
Location	Nucleus	Made in nucleus, goes to cytoplasm
Function	Stores genetic information	Used to make proteins

19. Antisense
20. RNA polymerase
21. 5' TACGACCTA 3'
22. 5' UACGACCUA 3'