Brain dump: Evolution and the origin of species

Darwin-Published origin of species Natural setection and evolution

Brain dump: Mendel and his pea plants

Used Pea Plants to show how genes are

Passed from Parent to offspring

Describe the theory of chromosomal inheritance. How many chromosmes do humans have? What is diploid and haploid?

Inherited trasts are controlled by genes on a chromosome.

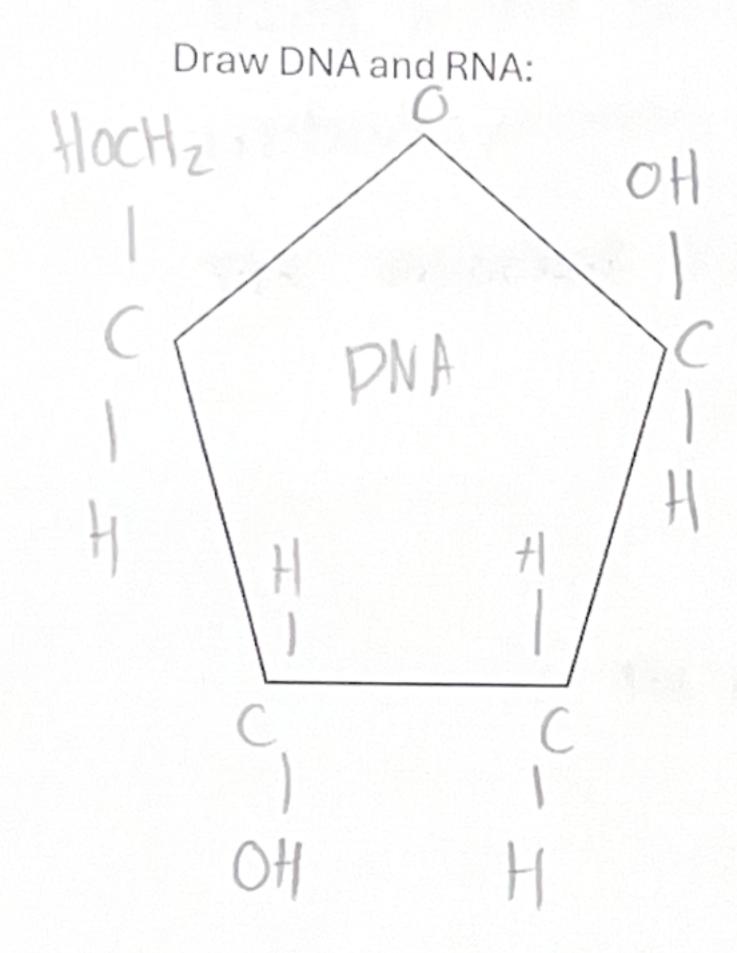
-diploid (2n) regular
-haploid (n) 1/2

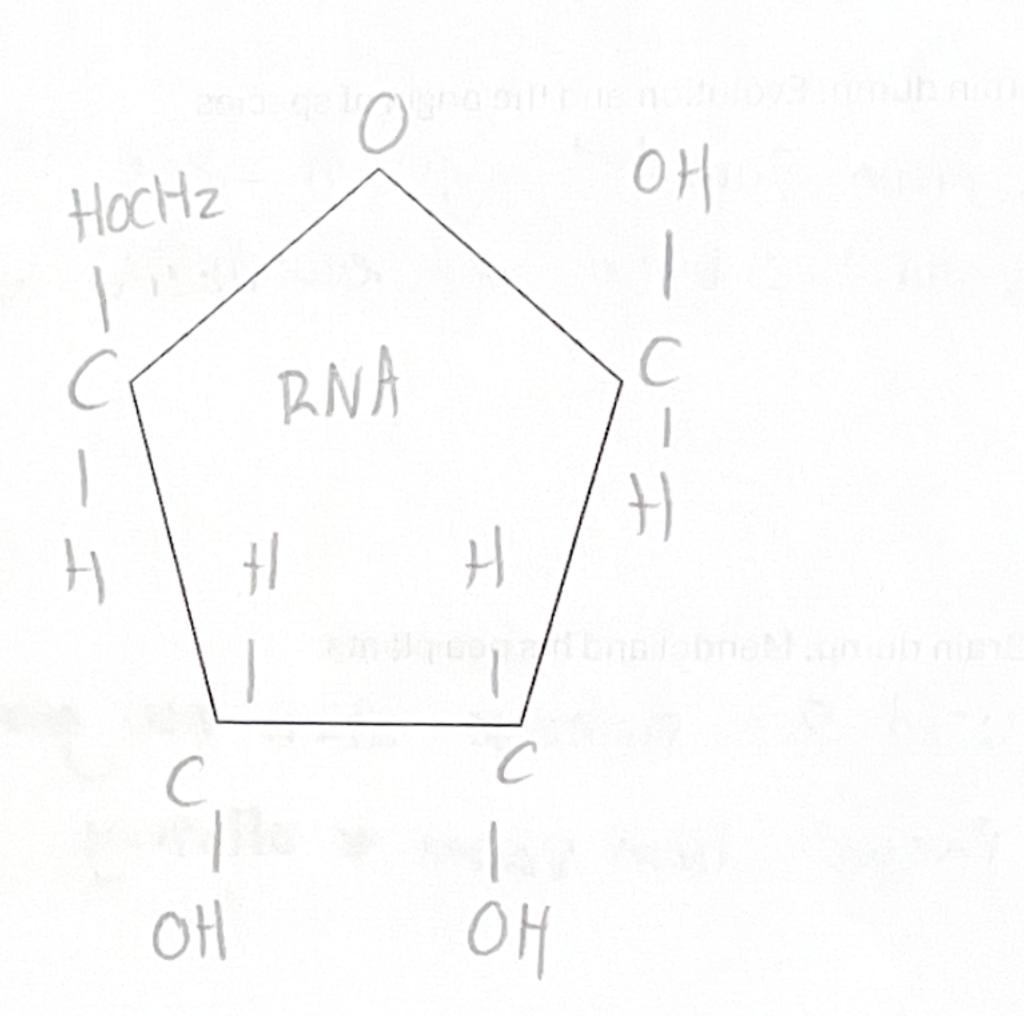
If a horse has 15% composition of cytosine in its DNA, what is the composition of all other C=C1 15%C and G bases?

15+15=30

100-30=70 -2=35

35% A and T





What is the central dogma of biology? Proteins are the_

DNA -9 RNA -> Protien

- end product of gene expression

Give the following species their scientific names

Pea plants: PISSUM Sativa

Fruit fly: Drosophila melanogaster

Mouse: MUS MUSCUlus

To serve as genetic material, what 4 things must it be able to do?

- Replicate

- store genetic info

- express info

- Allow variation by mutation

Brain dump: The 4 important scientist we have talked about for this exam

Watson & crick & semi conservative mode of replication and

chargaff-Base composition

Franklin > DNA X-ray inge

Describe the semiconservative model of replication:

HOW DNA IS Stored/ replicated

Parent

H = H H

How long can human chromosomes stretch out? How wide is the human nucleus?

6.0 feet 5-10 um

Draw an octomere and label it with all the histone proteins:

HIZA HIZB HI HU O HI3 HIZB HIZB HIZB HI3O O HIGH

89080

Describe what chromatin remodeling is and why histone tails are important for it.

Using histone tails to change PNA expression Lithout altering DNA

The unpacked tails allow for the modifications

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