

# 3

Nucleic Acid

→ monomer = nucleotides  
(made up of...)

polymer = nucleic acid

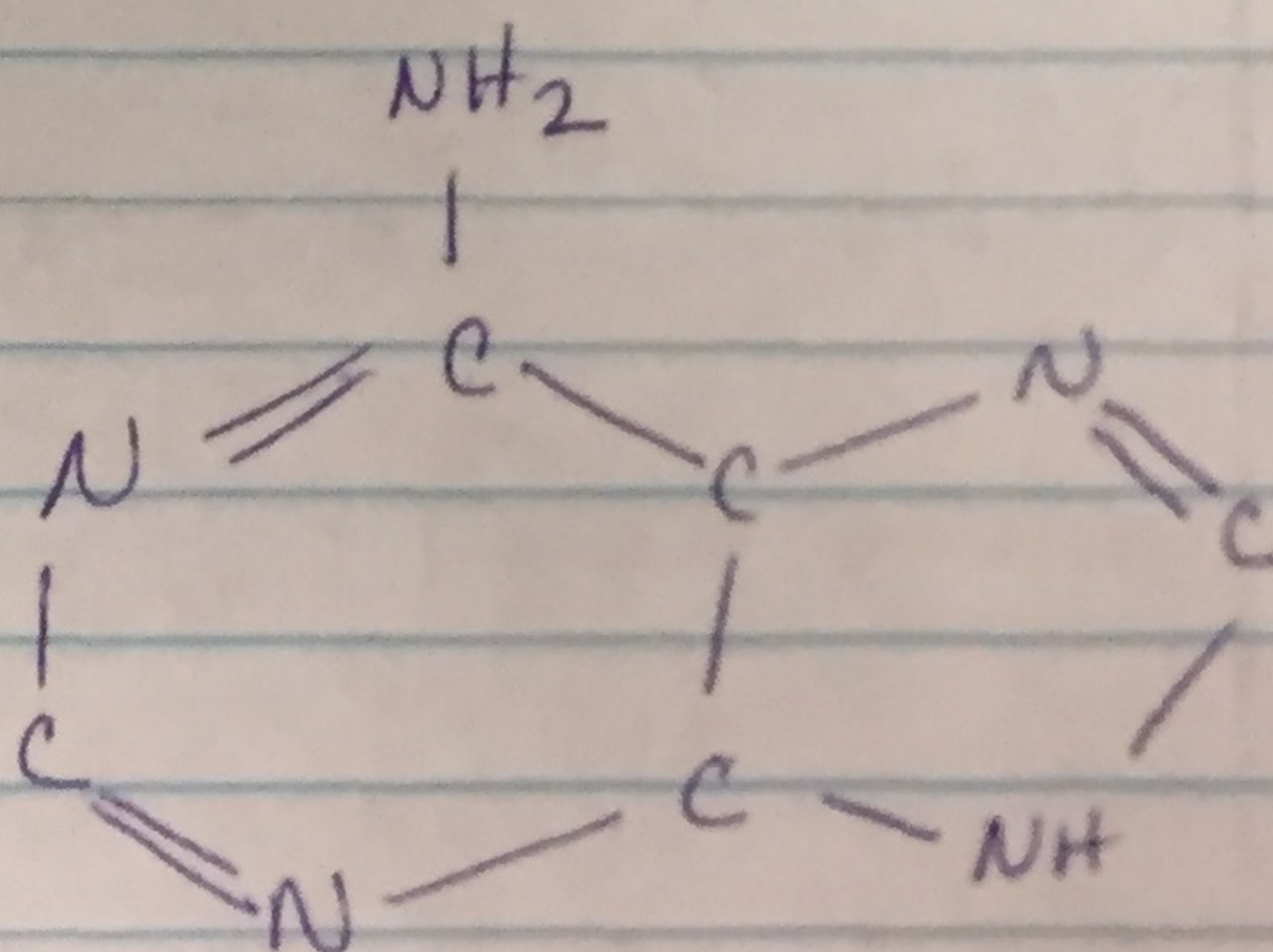
C    H    O    N    P  
carbon   hyd.   oxy.   nitrogen   phosphorus

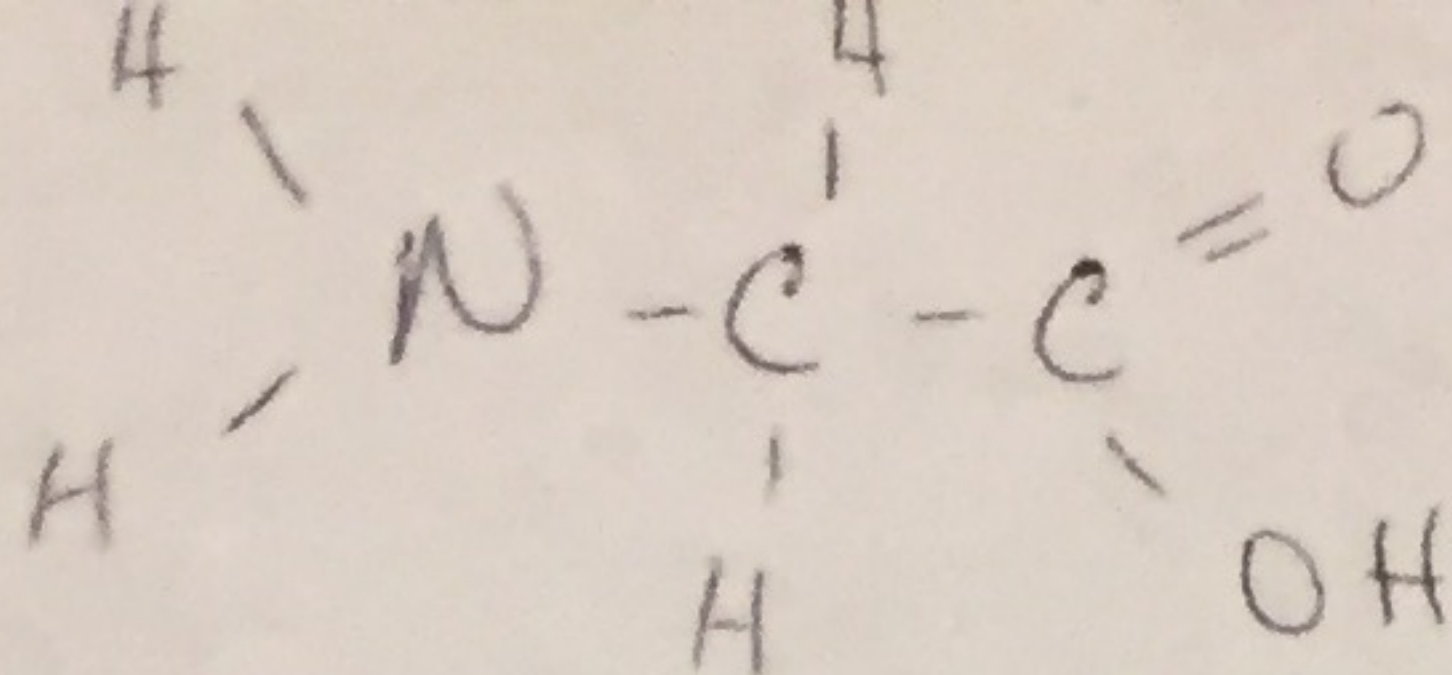
<u>Function</u>	<u>Example</u>
Make up genetic material DNA + RNA	- deoxyriboNUCLEIC ACID - riboNUCLEIC ACID - protein synthesis
• ATP	- energy carrier
• coenzymes	- assists enzymes

Structure:

- ✓ rings
- ✓ Nitrogen

example: "Adenine"





#2

PROTEIN

Monomer = amino acid  
(made up of...) (AA)

Polymer = polypeptide

N

C      H      O  
carbon    hydrogen    oxygen    nitrogen

- 20 AA on the Earth
- 12 in your body
- You must eat 8
- AA + AA + AA = protein 😊

### Function

- Metabolism
- Support
- transport
- Regulation
- Motion
- defense

### Example

- Enzymes involved speeds up process
- Structural function, hair, nails
- hemoglobin transports  $O_2$  to cells
- hormones (insulin)
- protein in muscles, ligaments, tendons
- antibodies