

CASE STUDY BASED PUZZLE

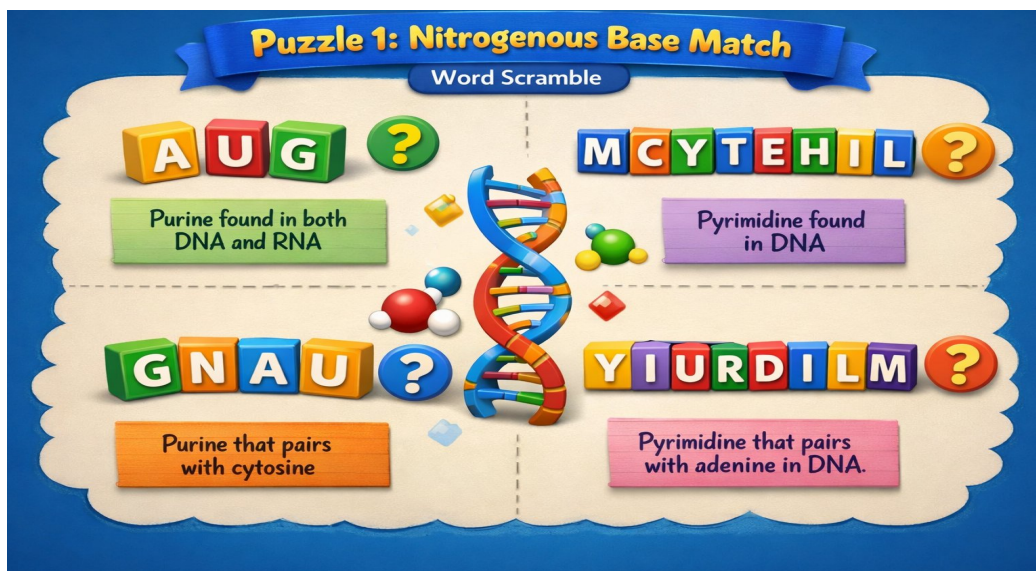
ER20-25T: BIOCHEMISTRY AND CLINICAL PATHOLOGY

UNIT 3: NUCLEIC ACIDS

Puzzle 1: Nitrogenous Base Match (Word Scramble)

Unscramble the following words to identify **purine and pyrimidine bases**:

1. **AUG** → Hint: Purine found in both DNA and RNA
2. **MCYTEHIL** → Hint: Pyrimidine found in DNA
3. **GNAU** → Hint: Purine that pairs with cytosine
4. **YIURDILM** → Hint: Pyrimidine that pairs with adenine in DNA



CASE STUDY BASED PUZZLE

ER20-25T: BIOCHEMISTRY AND CLINICAL PATHOLOGY

UNIT 3: NUCLEIC ACIDS

Puzzle 2: Nucleoside & Nucleotide Connection (Multiple Choice)

Match the components:

Component Description

Nucleoside Sugar + Nitrogenous base

Nucleotide Sugar + Nitrogenous base +
Phosphate

Options

a) Adenosine, b) ATP, c) Cytidine

a) GTP, b) Guanosine, c)
Thymidine

Puzzle 2: Nucleoside & Nucleotide Connection Multiple Choice!

Nucleoside
Sugar + Nitrogenous Base

Match the Nucleoside:

- A) Adenosine
- B) ATP
- C) Cytidine

Nucleotide
Sugar + Nitrogenous Base + Phosphate

Match the Nucleotide:

- A) GTP
- B) Guanosine
- C) Thymidine

Clues!

ONAX
RNA
DOUBLE
ACID

CASE STUDY BASED PUZZLE

ER20-25T: BIOCHEMISTRY AND CLINICAL PATHOLOGY

UNIT 3: NUCLEIC ACIDS

Puzzle 3: DNA Structure Crossword (Clues)

Across

1. The two strands of DNA are twisted into this shape.
2. The base that pairs with adenine in DNA.

Down

2. Type of bond connecting complementary bases in DNA.
4. The sugar present in RNA nucleotides.

