

PART 1 - CHEMISTRY

Topic : Biomolecules

SECTION-B : (Maximum Marks : 4)

This section contains **ONE** question.

The answer to each question is a **NON-NEGATIVE INTEGER**.

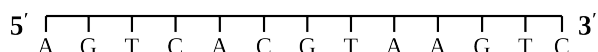
For each question, enter the correct integer corresponding to the answer in the place designated to enter the answer.

Answer to each question will be evaluated according to the following marking scheme :

Full Marks : +4 If **ONLY** the correct answer is entered;

Zero Marks : 0 In all other cases.

1. For a double strand DNA, one strand is given below:



The amount of energy required to split the double strand DNA into two single strands is _____ kcal mol⁻¹.

[Given: Average energy per H-bond for A-T base pair = 1.0 kcal mol⁻¹, G-C base pair = 1.5 kcal mol⁻¹, and A-U base pair = 1.25 kcal mol⁻¹. Ignore electrostatic repulsion between the phosphate groups.]

[JEE Advanced 2024 Paper 2]

Scan or tap for the
full solution



Space for Rough Work

JEE ADVANCED BIOMOLECULES — DNA BASE PAIRING — H-BONDS — PYQS

Test Pattern : **JEE (Advanced)**

ANSWER KEY

[illegible]