

JEE MAIN BIOMOLECULES — NUCLEIC ACIDS — PYQS

Max. Marks: 16

Questions: 4

Section A (MCQ) — 3 questions

Q.1 Both human DNA and RNA are chiral molecules. The chirality in DNA and RNA arises due to the presence of

[JEE Main 2026 (Online) 23rd January Evening Shift]

- (1) L-sugar component
- (2) D-sugar component
- (3) Chiral phosphate unit
- (4) Base unit

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Q.2 The carbohydrate "Ribose" present in DNA, is

- A. A pentose sugar
- B. present in pyranose form
- C. in "D" configuration
- D. a reducing sugar, when free
- E. in α -anomeric form

Choose the correct answer from the options given below:

[JEE Main 2025 (Online) 24th January Morning Shift]

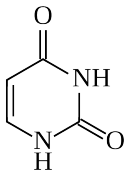
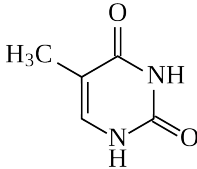
- (1) A, D and E Only (2) B, D and E Only
- (3) A, C and D Only (4) A, B and E Only

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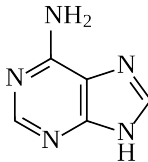
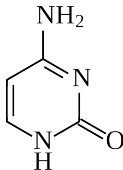


Q.3 Match List - I with List - II.

List - I	
A.	Adenine
B.	Cytosine
C.	Thymine
D.	Uracil

List - II	
I.	
II.	

List - II

III.	
IV.	

Choose the correct answer from the options given below :

[JEE Main 2025 (Online) 24th January Evening Shift]

- (1) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
- (2) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
- (3) (A)-(III), (B)-(I), (C)-(IV), (D)-(II)
- (4) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

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Section B (Numerical) — 1 question

Q.4 The total number of hydrogen bonds of a DNA-double Helix strand whose one strand has the following sequence of bases is ____.

5'-G-G-C-A-A-T-C-G-G-C-T-A-3'

[JEE Main 2025 (Online) 4th April Morning Shift]

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ANSWER KEY

Section A (MCQ) — 3 questions

Ques.	1	2	3										
Ans.	2	3	2										

Section B (Numerical) — 1 question

Ques.	4												
Ans.	33												