

JEE MAIN BIOMOLECULES — AMINO ACIDS — PYQS

Max. Marks: 28

Questions: 7

Section A (MCQ) — 7 questions

Q.1 Which of the following amino acid will give violet coloured complex with neutral ferric chloride solution? [JEE Main 2026 (Online) 8th April Evening Shift]

- (1) Threonine (2) Serine
(3) Tyrosine (4) Cysteine

Scan or tap for the full solution



Q.2 Match the List-I with List-II

[JEE Main 2026 (Online) 6th April Morning Shift]

Amino acid		Positive reaction/Test for functional group present in side chain of amino acid	
A.	Glutamine	I.	Hinsberg's test
B.	Lysine	II.	Neutral FeCl_3 test
C.	Tyrosine	III.	Ceric ammonium nitrate test
D.	Serine	IV.	Hoffman bromamide degradation

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

Scan or tap for the full solution



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

Name of amino acid		One letter symbol/type	
A.	Arginine	I.	D/Non-essential
B.	Aspartic acid	II.	R/Essential
C.	Lysine	III.	E/Non-essential
D.	Glutamic acid	IV.	K/Essential

Choose the **correct** answer from the options given below : [JEE Main 2026 (Online) 4th April Morning Shift]

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

Scan or tap for the full solution



Q.4 Identify the correct pair having amino acid (A) and the hormone (B) that is iodinated derivative of the amino acid (A).

(T and Y represent one letter code for amino acids)

[JEE Main 2026 (Online) 2nd April Evening Shift]

- (1) Amino acid (A) - T Hormone (B) - Insulin
(2) Amino acid (A) - T Hormone (B) - Thyroxine
(3) Amino acid (A) - Y Hormone (B) - Thyroxine
(4) Amino acid (A) - Y Hormone (B) - Insulin

Scan or tap for the full solution



Q.5 Identify the correct statements.

Choose the correct answer from the options given below :

- A. Arginine and Tryptophan are essential amino acids.
B. Histidine does not contain heterocyclic ring in its structure.
C. Proline is a six membered cyclic ring amino acid.
D. Glycine does not have chiral centre.
E. Cysteine has characteristic feature of side chain as $\text{MeS}-\text{CH}_2-\text{CH}_2-$.

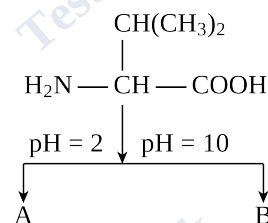
[JEE Main 2026 (Online) 21st January Morning Shift]

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

Scan or tap for the full solution

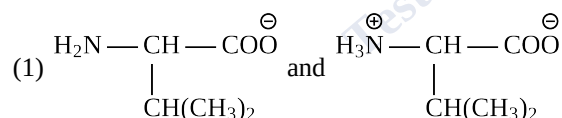


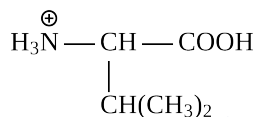
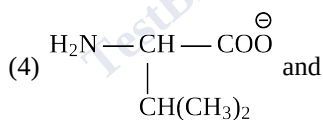
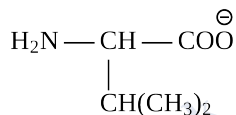
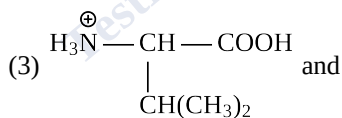
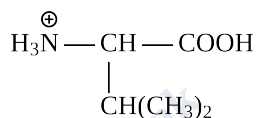
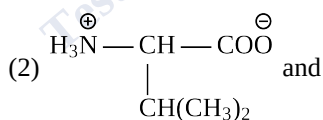
Q.6



Choose the correct option for structures of A and B, respectively

[JEE Main 2025 (Online) 8th April Evening Shift]





Scan or tap for the
full solution



Q.7 Identify the correct statement among the following :

[JEE Main 2025 (Online) 2nd April Morning Shift]

- (1) All naturally occurring amino acids except glycine contain one chiral centre.
- (2) Amino acid, cysteine can easily undergo dimerisation due to the presence of free SH group.
- (3) Glutamic acid is the only amino acid that contains a $-\text{COOH}$ group at the side chain.
- (4) All naturally occurring amino acids are optically active.

Scan or tap for the
full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7				
Ans.	3	2	1	3	2	3	2				