

PYQSide

NEET BIOMOLECULES — PROTEINS — PYQS

Max. Marks: 44

Questions: 11

Section A (MCQ)

Q.1 The correct statement about peptides and proteins is

[RE-NEET (UG) 2026]

- (1) In α -helices, the polypeptide chain is twisted into a left-handed screw (helix) through intramolecular hydrogen bonds
- (2) Tertiary structure of proteins has two or more polypeptide subunits
- (3) Only the proteins having a quaternary structure are biologically active
- (4) In β -pleated sheet structures, peptide chains are held together by intermolecular hydrogen bonds

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Q.2 The incorrect statement about denaturation of proteins is :

[NEET (UG) 2022 (Phase 2)]

- (1) Uncoiling of the helical structure takes place
- (2) It results due to change of temperature and/or pH
- (3) It results in loss of biological activity of proteins
- (4) A protein is formed from amino acids linked by peptide bonds

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Q.3 Which of the following statements is not correct?

[NEET 2017]

- (1) Ovalbumin is a simple food reserve in egg-white.
- (2) Blood proteins thrombin and fibrinogen are involved in blood clotting.
- (3) Denaturation makes the proteins more active.
- (4) Insulin maintains sugar level in the blood of a human body.

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Q.4 In a protein molecule various amino acids are linked together by

[NEET 2016 (Phase 1)]

- (1) peptide bond (2) dative bond
- (3) α -glycosidic bond (4) β -glycosidic bond.

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Q.5 Which of the statements about "Denaturation" given below are correct?

- A. Denaturation of proteins causes loss of secondary and tertiary structures of the protein.
- B. Denaturation leads to the conversion of double strand of DNA into single strand.

C. Denaturation affects primary structure which gets distorted. [AIPMT 2011 (Mains)]

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

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Q.6 Which functional group participates in disulphide bond formation in proteins? [AIPMT 2005]

- (1) Thioester (2) Thioether
- (3) Thiol (4) Thiolactone

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Q.7 The cell membranes are mainly composed of

[AIPMT 2005]

- (1) fats (2) proteins
- (3) phospholipids (4) carbohydrates

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Q.8 The correct statement in respect of protein haemoglobin is that it [AIPMT 2004]

- (1) functions as a catalyst for biological reactions
- (2) maintains blood sugar level
- (3) acts as an oxygen carrier in the blood
- (4) forms antibodies and offers resistance to diseases.

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Q.9 The helical structure of protein is stabilised by

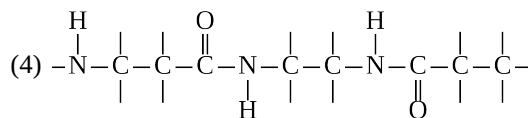
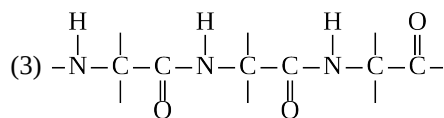
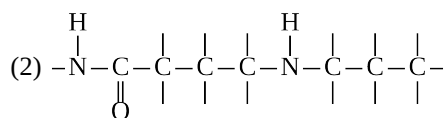
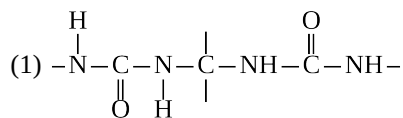
[AIPMT 2004]

- (1) dipeptide bonds (2) hydrogen bonds
- (3) ether bonds (4) peptide bonds

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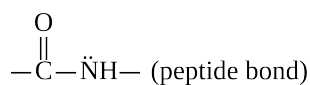
Q.10 Which of the following structures represents the peptide chain? [AIPMT 2004]



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Q.11



Which statement is incorrect about peptide bond?

[AIPMT 2001]

- (1) C–N bond length in proteins is longer than usual bond length of N–C bond.
- (2) Spectroscopic analysis shows planar structure of $\begin{array}{c} \text{O} \\ || \\ -\text{C}-\text{NH}- \end{array}$ group.
- (3) C–N bond length in proteins is smaller than usual bond length of C–N bond.
- (4) None of the above.

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	4	4	3	1	3	3	3	3	2	3	1