

11. The folding process depends on all of them except:

- A. temperature
- B. Charge
- C. Ph degree
- D. Acid solvent
- E. Chaperones

ANSWER: B

12. Who is responsible of 3D structure of protein:

- A. Peptide bond
- B. Amino acid sequence
- C. Inter hydrogen bond
- D. Chaperons

ANSWER: C

13. All of these is function of the protein except:

- A. Transport molecules
- B. Work as receptors
- C. Catalyze specific reactions
- D. Protection from invaders
- E. Contains genetic material

ANSWER: E

23. Which of these proteins is the second in the chromatography (gel transmission):

A. Protein M = 65,000

B. Protein M = 145,00

C. Protein M = 24,000

D. Protein M = 350,00

E. Protein M = 33,000

ANSWER: 

34. Antiparallel  $\beta$  sheet is more stable than parallel sheets because the latter:

- Have less hydrogen bonds than antiparallel

7. In a helix, choose the CORRECT statement?

- A. side chain residues point up and down the axis of the helix
- B. the helix is right-handed
- C. there are five residues per helical turn
- D. the oxygen of the carbonyl carbon in a peptide bond points out toward the exterior of the helix
- E. there are usually many prolines' residues present

**ANSWER: B**

8. In an Alpha-turn, the end residues are separated by peptide bonds?

- A. two
- B. one
- C. five
- D. three
- E. four

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ANSWER:E

9. Which of the following has high helix-forming propensities?

- A. glycine
- B. proline
- C. alanine
- D. tryptophan
- E. tyrosine

ANSWER: C

20. There are several levels of protein structure, the most complex of which is?

A. primary

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B. secondary

C. tertiary

D. quaternary

E. alpha helix

ANSWER: D



27. A process by which a protein structure assumes its functional shape or conformation is?

- A. denaturing
- B. folding
- C. synthesis
- D. hydrolysis
- E. aggregation

ANSWER:



33. Which one of the followings is the initiation codon?

A. AUG

B. GUA

C. UAG

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D. UGA

E. UUA

**ANSWER: A**

39. There are several levels of protein structure, the simplest of which is?

- A. Primary
- B. Secondary
- C. Tertiary
- D. Quaternary
- E. Beta sheet

**ANSWER: A**

40. The process of returning a denatured protein structure to its original structure and normal level of biological activity is ?

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- A. Denaturing
- B. Synthesis
- C. Renaturation
- D. Hydrolysis
- E. Aggregation

**ANSWER: C**

48. For the peptide bond, choose the INCORRECT answer?

- A. It is a Trans bond
- B. It is a Cis bond
- C. It is rigid and planar
- D. It is a covalent bond
- E. It has a partial double bond character

**ANSWER: B**

49. For Myoglobin, choose the WRONG statement?

- A. Myoglobin Can't carry CO<sub>2</sub>
- B. Myoglobin O<sub>2</sub> affinity is higher than hemoglobin O<sub>2</sub> affinity
- C. Myoglobin has cooperativity of O<sub>2</sub> binding
- D. Myoglobin has No quaternary structure
- E. Myoglobin is found in muscles

**ANSWER: B**

50. In an alpha helix, choose the CORRECT statement?

- A. There are usually many Glycine residues present
- B. Side chain residues point up and down the axis of the helix
- C. The helix is always left-handed
- D. There are 3.6 residues per helical turn
- E. The oxygen of the carbonyl carbon in a peptide bond points out toward the exterior of the helix

**ANSWER: D**

52. Which one of the followings prefers to adopt B-strand conformations?

- A. Leucine
- B. Proline
- C. Alanine
- D. Methionine
- E. Tyrosine

**ANSWER: A**



52. Which one of the followings prefers to adopt B-strand conformations?

- A. Leucine
- B. Proline
- C. Alanine
- D. Methionine
- E. Tyrosine

E

ANSWER: ~~A~~

53. In a delta-turn, the end residues are separated by peptide bonds?

A. Two

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B. One

C. Five

D. Three

E. Four

**ANSWER: B**