

### Question 1

The alpha helix is the predominant structural feature in a fibrous protein.

Pick whether it's true or false...

Answer: <https://biology-forums.com/index.php?topic=553498>

### Question 2

Essential amino acids cannot be synthesized in the body.

Pick whether it's true or false...

Answer: <https://biology-forums.com/index.php?topic=553488>

### Question 3

Pyruvate can be converted into two different products depending on whether oxygen is readily available or not. Under conditions of strenuous activity the product is:

- A) acetyl CoA
- B) lactate
- C) pyruvate
- D) CO<sub>2</sub>

Answer: <https://biology-forums.com/index.php?topic=553620>

### Question 4

Which of the following is the structure for stearic acid?

- A) CH<sub>3</sub>(CH<sub>2</sub>)<sub>14</sub>COOH
- B) CH<sub>3</sub>(CH<sub>2</sub>)<sub>16</sub>COOH
- C) CH<sub>3</sub>(CH<sub>2</sub>)<sub>12</sub>COOH
- D) CH<sub>3</sub>(CH<sub>2</sub>)<sub>10</sub>COOH

Answer: <https://biology-forums.com/index.php?topic=552933>

### Question 5

When guanine is connected to the deoxyribose sugar, its name becomes:

- A) guanosine monophosphate
- B) guanosine
- C) guanine
- D) none of the above

Answer: <https://biology-forums.com/index.php?topic=553505>

### Question 6

A salt solution involves predominantly ionic attractions.

Is this statement T or F?

Answer: <https://biology-forums.com/index.php?topic=553163>

### Question 7

What do the formation of an ether from two alcohols, an ester from an alcohol and a carboxylic acid and a disaccharide from two monosaccharides have in common?

Answer: <https://biology-forums.com/index.php?topic=553478>

### Question 8

Which of the following functional groups comprises a carbon atom bonded to a hydroxyl group?

- A) Alcohol
- B) Thiol
- C) Carbonyl
- D) Ester

Answer: <https://biology-forums.com/index.php?topic=553026>

### Question 9

When a molecule binds to an enzyme at a site other than the active site and affects enzyme shape it is called a(n):

- A) noncompetitive inhibitor
- B) competitive inhibitor
- C) irreversible inhibitor

D) covalent modification

Answer: <https://biology-forums.com/index.php?topic=553447>

### Question 10

Which of the following proteins has a distinctive Y-shape?

- A) Hemoglobin
- B) Collagen
- C) Antibodies
- D) Integral protein

Answer: <https://biology-forums.com/index.php?topic=553431>

### Question 11

At the boiling point, the vapor pressure is equal to the \_\_\_\_\_ pressure.

Answer: <https://biology-forums.com/index.php?topic=553191>

### Question 12

The model that explains that the substrate fits exactly into the active site of an enzyme is called:

- A) induced fit
- B) lock and key
- C) substrate selectivity
- D) coenzyme

Answer: <https://biology-forums.com/index.php?topic=553440>

### Question 13

The molar mass of carbon is 6 g/mol.

Is this statement T or F?

Answer: <https://biology-forums.com/index.php?topic=552874>

### Question 14

Which of the following molecules contains high energy bonds?

- A) ATP
- B) AMP
- C) CO<sub>2</sub>
- D) Isocitrate

Answer: <https://biology-forums.com/index.php?topic=553580>

### Question 15

The conversion of an unsaturated fatty acid to a saturated one involves \_\_\_\_\_.

Answer: <https://biology-forums.com/index.php?topic=553015>

### Question 16

A correct set of complimentary base pairs in DNA are:

- A) AU
- B) TC
- C) AT
- D) GA

Answer: <https://biology-forums.com/index.php?topic=553518>

### Question 17

Calculate the number of moles of O<sub>2</sub> molecules in the following quantities:

- A) 4.00 moles of H<sub>2</sub>O<sub>2</sub>
- B) 6.00 moles of CuSO<sub>4</sub>·5H<sub>2</sub>O
- C) 10.0 moles of Cr(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O
- D) 12.0 moles of C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>

Answer: <https://biology-forums.com/index.php?topic=552906>

### Question 18

What type of amino acid is glutamic acid?

- A) Polar neutral

- B) Nonpolar neutral
- C) Acidic
- D) Basic

Answer: <https://biology-forums.com/index.php?topic=553387>

### Question 19

A neutron has no charge and negligible mass.

Is this statement T or F?

Answer: <https://biology-forums.com/index.php?topic=552761>

### Question 20

In the beta anomer, the -OH on the anomeric carbon atom is \_\_\_\_\_ to carbon 6, meaning on the \_\_\_\_\_ side of the ring.

Answer: <https://biology-forums.com/index.php?topic=553100>