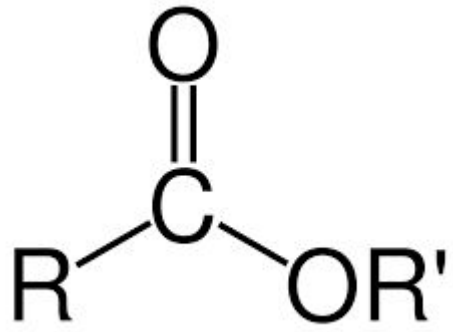
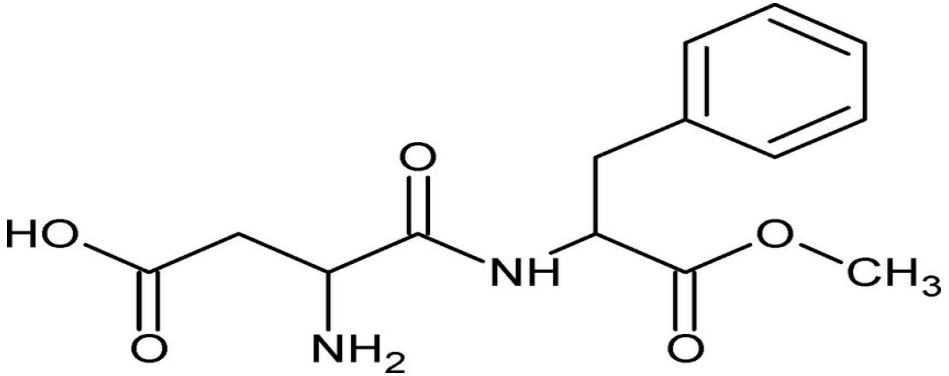
1.We can see this functional group in?



A- Aspartame
B-Vasopressin
C-Glutathione
D-Carnosine
E-Enkephalin

Answer:A

2.The correct statement abt this?



A) L-phenylalaiyl L-Aspartic

B)etheyl ester

C)Tripeptide

D)A+B+C

E)Non of the above

Answsr:E

3.Which of the following statements is correct regarding the N-terminal?

A. Its charge is zero at physiological pH.

B. It consists of an amide group.

C. It can form a covalent bond with the alpha carbon of other Amino Acid if the molecule is folded.

D. It cannot form covalent bonds with other molecules.

E. C and D.

Answer:D

4.There is a sequence of amino acids X, Y, A, D (from right to left) and a corresponding sequence of amino acids M, U, Q, S (from right to left). It is known that bonds are formed between the oxygen atom in the carboxyl group of amino acids X, Y, A and the nitrogen atom in the amine group of amino acids M, U, Q

Based on this information, we can say:
A) Amino acid D has a Tertiary (N) Atom

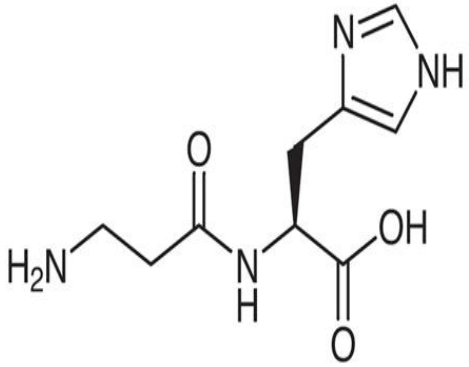
B) The bond between amino acids (M, X) is stronger than the bond between adjacent amino acids (M, U).

C) Amino acid D represents the N-Terminal residue.

D) The sequence X, Y, A, D will produce a different protein from the protein that will be produced from M, U, Q, S.
E) A + D

Answer:E

5.Which of the following true about this molecule?



A-It is highly concentrated in muscels
B - It is a dipeptide (composed of two polar amino acids).
C - It has a COO- group attached to the β carbon.
D - It is composed of His and Pro.
E)A and B

Answer:A

6.When naming the peptide composed of the following amino acids: Glycine (Gly) - Alanine (Ala) - Serine (Ser) - Phenylalanine (Phe), what is the correct name of the peptide according to peptide naming rules?
A) Glycinealanineserinephenylalanine
B) Glycylalanineserylphenylalanine
C) Glycylalanylserylphenylalanine
D) Glycylalanineserylphenylalaninyl

Answer:C

7.Which of the following is NOT a known function or characteristic of carnosine?
a) Antioxidant properties
b) Enhancing muscle contraction
c) Reducing blood glucose levels
d) Protecting cells from peroxides
E)C+D
Answer:C

8.What is the sequence of amino acids in glutathione from the N-terminal to the C-terminal?

a) Glycine - Glutamic acid - Cysteine

b) Glutamic acid - Cysteine - Glycine

c) Cysteine - Glycine - Glutamic acid,

d) Glutamic acid - Glycine - Cysteine

Answer:B

9.In glutathione, the peptide bond occurs between Glu and ---------- through ----------?

A) His, the peptide bond between the amine group of Glu and the carboxyl group of His

B) His, the peptide bond between the amine group of His and the carboxyl group of Gly

C) Cys, the peptide bond between the carboxyl group linked to the γ-carbon of Glu and the amine group of Cys

D) Cys, the peptide bond between the carboxyl group on the side chain of Glu and the amine group of Cys

Answer:D

10.Which of the following correctly describes the disulfide bond in glutathione?

a) It forms between two cysteine residues in the reduced form

b) It forms between two glycine residues in the reduced form

c) It forms between two glutamic acid residues in the reduced form

d) It forms between two serine residues in the reduced form

Answer:A

11.The correct match?

A-Enkephalins- pain relievers

B- gluthione-diphosphate bond

C- Carnosine-200 times sweeter than sugar

D-Aspartame- accumulation of phenylpyruvate

E-All of the above

Answer:A

12.Which type of peptide are enkephalins classified as?
a) Tripeptides

b) Tetrapeptides

c) Pentapeptides

d)oligo-peptides

Answer:C

13.A patient is experiencing a severe drop in blood pressure due to septic shock. What is the appropriate treatment to raise blood pressure in this situation?

A) Epinephrine

B) Vasopressin

C) Nitroglycerin

D) Heparin

14.A woman in labor is experiencing inadequate uterine contractions and needs to enhance the labor process. What is the most appropriate treatment to administer?
A) Epidural anesthesia
B) Oxytocin
C) Nitroglycerin
D) Insulin

Answer:B

15.Oxytocin and vasopressin ?

A)Both have a disulfide bond

B)Both have amide group at the N-terminus and carboxylic group at the C-terminus

C)Vasopressin -Cardiac muscle contraction

D)oxytocin-uterine muscle Contraction

E) A+D

Answer:E