

Carbohydrates

- 1) is the most abundant compound on
- 2) found in are
 - (i) C (.....)
 - (ii) H (.....)
 - (iii) O (.....)
- 2) The common formula of is
- 3) There are 3 types of
 - (i)
 - (ii)
 - (iii)

Monosaccharides

- 1) is the form of
- 2) Therefore is the structural unit of
- 3) are commonly known as the sugars
- 4) The common formula of is
- 5) There are 3 types of
 - (i)
 - (ii)
 - (iii)
- 6) Common features of
 - (i) Generally taste (except
 - (ii) Can be (having a shape)
 - (iii) Soluble in

Glucose

- 1) is produced during in plants
- 2) It is used to produce during

3) is produced when gets digested

4) Found in &

Fructose

1) is known as sugar

2) It is the sugar

3) It is produced during of fruits

4) Found in ripen fruits, bee honey, and

Galactose

1) No taste

2) Produce when gets digested

3) Found in products

Disaccharides

1) When two join together a and a molecule will be formed.

2) + \rightarrow +

3) Glucose + Glucose \rightarrow +

4) Glucose + Fructose \rightarrow +

5) Glucose + Galactose \rightarrow +

6) $C_6H_{12}O_6 + C_6H_{12}O_6 \rightarrow$ +

7) Therefore the common formular of is

8) Therefore there are 3 types of

(i)

(ii)

(iii)

9) When a is hydrolyzed two will be produced

10) + water \rightarrow +

11) + $H_2O \rightarrow$ +

12) + water \rightarrow Glucose + Glucose

13) + water \rightarrow Glucose + Fructose

14) + water \rightarrow Glucose + Galactose

15) Common features of

(i) Generally has a taste (except)

(ii) Can be (has a shape)

(iii) Soluble in

Maltose

1) is the intermediate product of hydrolysis of

..... + water \rightarrow maltose

..... + water \rightarrow Glucose + Glucose

2) Found in germinating

Sucrose

1) Found in sap & & sugar

Lactose

1) No taste.

2) Absent in

3) milk has more than in milk

4) Found in products

Polysaccharides

1) A large number of get together and produce a and a large number of molecules

$n \dots \rightarrow \dots + nH_2O$

2) Therefore the common formula of is

3) Joining a number of molecules and forming a molecule is called

4) The molecules are called

5) The molecule is called the

6) of a will produce a number of

..... + nH₂O → n.....

7) Some are

(i)

(ii)

(iii)

Starch

1) get stored in plants as

2) Found in yams,, & grains

Glycogen

1) get stored in animals as

2) Found in and muscles

Cellulose

1) The of plant cells are made up of

2) cannot be digested by humans.

3) It helps to prevent

Proteins

1) The found in proteins

(i) – C

(ii) – H

(iii) – O

(iii) – N

(iv) – S (sometimes)

2) % of the mature human body is made up of

3) is a large molecule (.....).

4) are made up of large number of

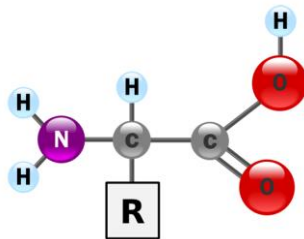
5) Therefore is the of

6) Therefore the unit of is called

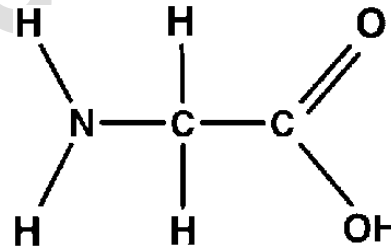
Amino acids

1) A number of get together and proteins.

- 2) Therefore are the monomer.
- 3) are the polymer.
- 4) Therefore polymerization of will produce
- 5) An has a (C) atom on the center
- 6) The following are attached to the center (C) atom.
- (-NH₂)
 - (-COOH)
 - a atom (-H)
 - a variable group (-R) made up of or and
- 7) Depending according to the variable group, there are different
- 8) The simplest acid is Its variable group is a atom.
- 9) Some cannot be formed from in the body. These have to be essentially taken with from outside. They are called essential
- 10) Some can be produced by the body. Therefore these are not essentially be taken with from outside. They are called non essential

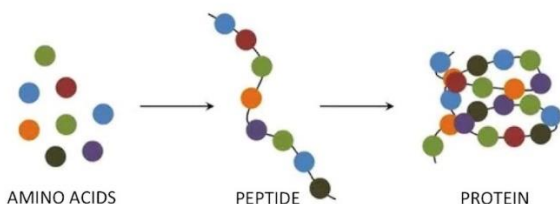


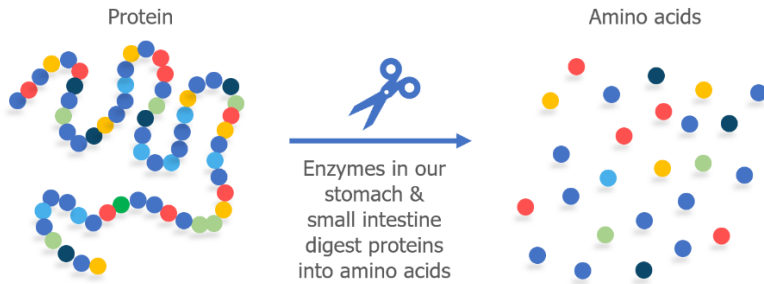
Amino Acid



Glycine

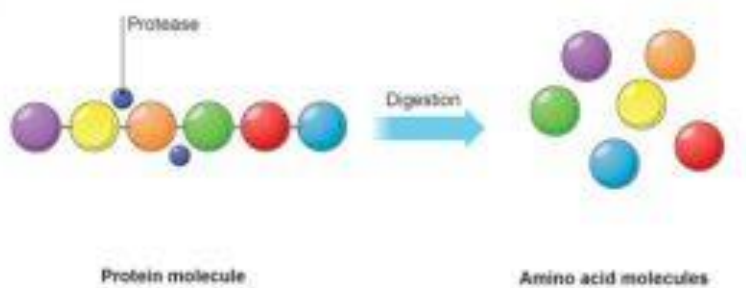
HOW YOUR BODY USES AMINO ACIDS AS BUILDING BLOCKS





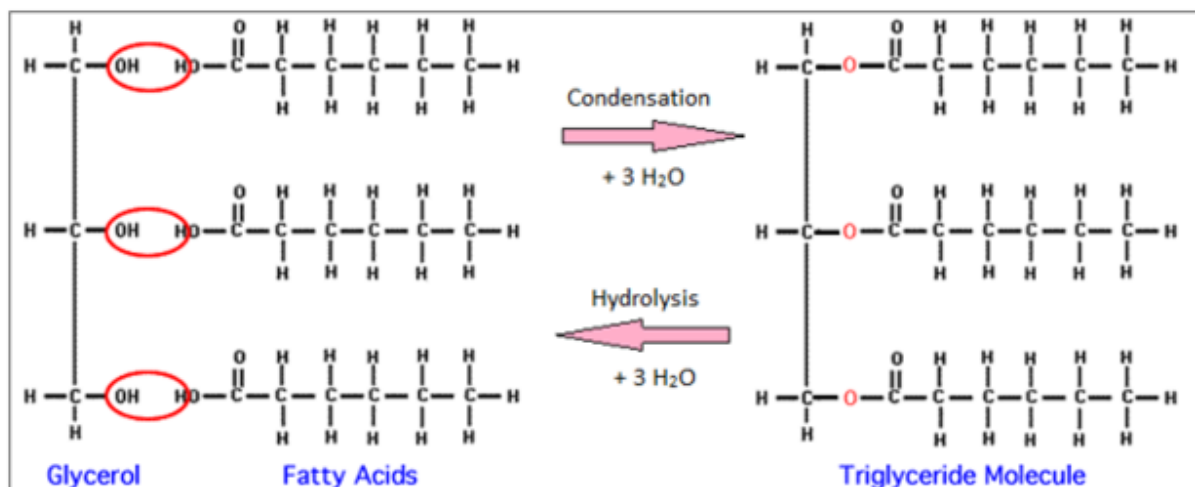
Proteins

- **Protease** enzymes break down **proteins** into **amino acids**



Lipids

- The found in are
 - (C)
 - (H)
 - (O)
- There are two types of lipids
 - – in room temperature
 - – in room temperature
- are made up of a and 3
- There are two types of



Please copy down this note in a CR book and try to fill in blanks.

The answers for the blanks will be given at the beginning of the next class.

Please inform 4 of your 2022 OL friends.

Thank you

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Government text books can be downloaded from

www.edupub.gov.lk