



تَوِير

BIOLOGY

Lec no : Polysaccharides
+ polypeptides

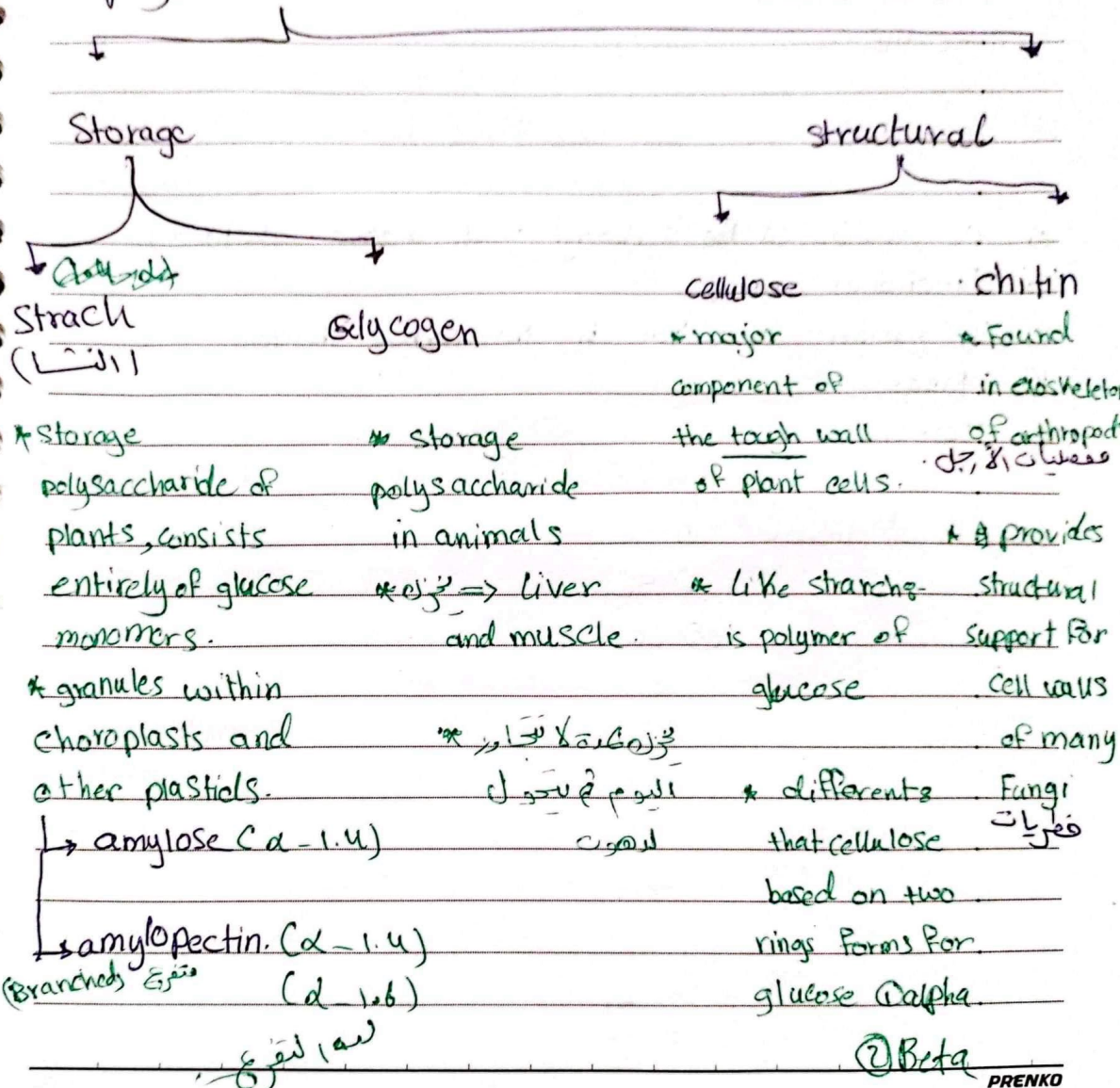
File Title : Summary

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وَقُلْ رَبِّ زِدْنِي عِلْمًا



③ polysaccharides.



→ amylose (α-1.4)
 → amylopectin (α-1.4) (β-1.6)
 (Branched)

(Branched)

② Beta

(the linker is different)

Polypeptides: polymer of amino acids

Protein: one or more polypeptides twisted, coiled or folded in a unique shape

Amino Acids: organic molecules

- R group
- Carboxyl End (C-)
- Amino End (N-)
- H

جزيء
Peptide bond

• sequence of amino acid determine 3D protein structure
 • protein structure determine function

1) Primary structure: Sequence of Amino Acid like a nu or in one world.
 • determine by inherited genetic info

2) Secondary structure: axis and folded resulted in hydrogen bond between repeated constituents
 • Coiled \rightarrow α helix
 • Folded \rightarrow β pleated sheet

3) tertiary structure: between R groups

- ① hydrophobic [non-polar + non-polar]
- ② hydrogen [polar-polar]
- ③ Ionic [\oplus + \ominus]
- ④ disulfide bridge (strongest) [S + S]

4) Quaternary: one or more polypeptide

- Fibres
- Globular