



Mi Universidad

Glucolisis

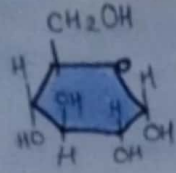
Nombre del Alumno: Rocio Paola Molina Mendoza

Nombre del tema: Unidad IV

Nombre de la Materia: Bioquimica

Nombre del profesor: Abel Estrada Dichi

Cuatrimestre: 1°



Glucose

Reactions 1-3
Activation by phosphorylation
2 ATPs invested.

1



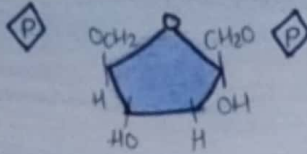
2

3



Reactions 4 and 5
cleavage of 1 six-carbon sugar phosphate to 2 three-sugar phosphates.

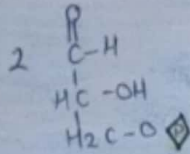
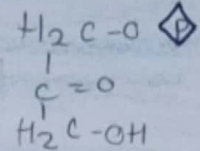
Fructose-1,6-bisphosphate



4

Glyceraldehyde-3-phosphate

Dihydroxyacetone phosphate

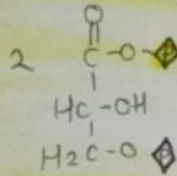


6

Energy Generation phase

Reaction 6
generation of 2 NADH and a super-high-energy compound.

1,3-bisphosphoglycerate



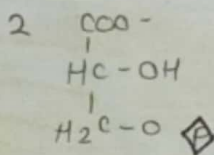
Radioactivity
Measuring in Enzyme

7



Reaction 7
substrate-level phosphorylation
2 ATPs generated

3-phosphoglycerate

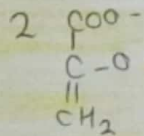


8

Reactions 8 and 9
Generation of a super-high-energy compound (and water)

9

Phosphoenolpyruvate



10



Reaction 10
substrate-level phosphorylation
2 ATPs generated

Pyruvate

