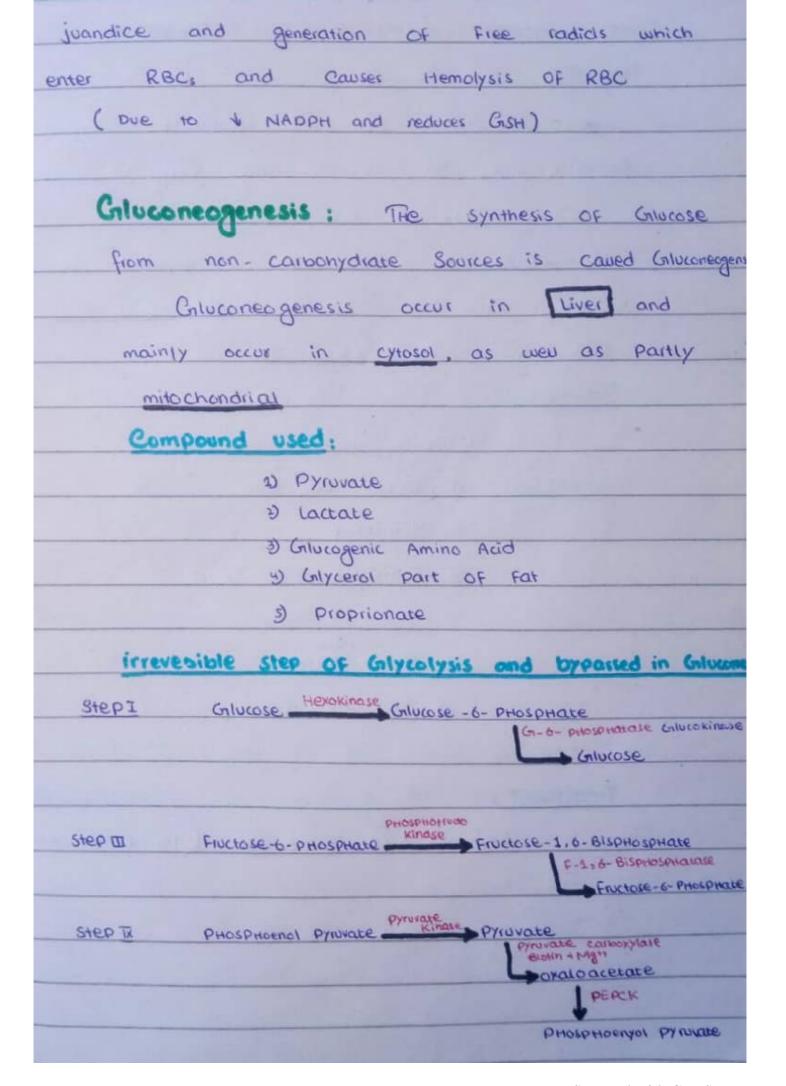
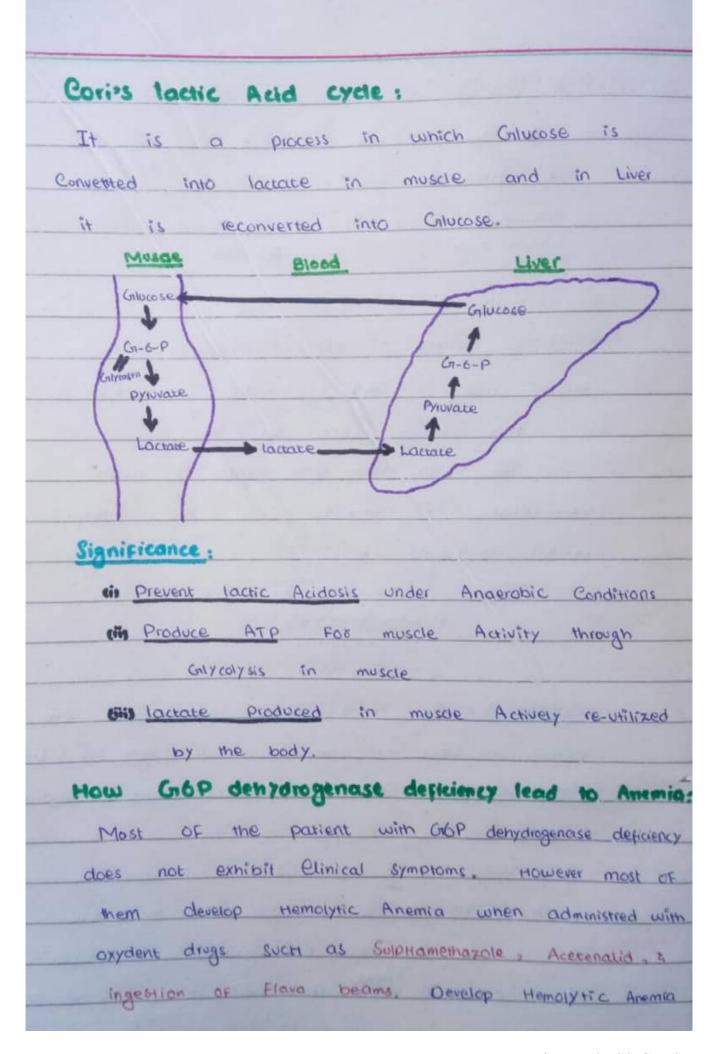
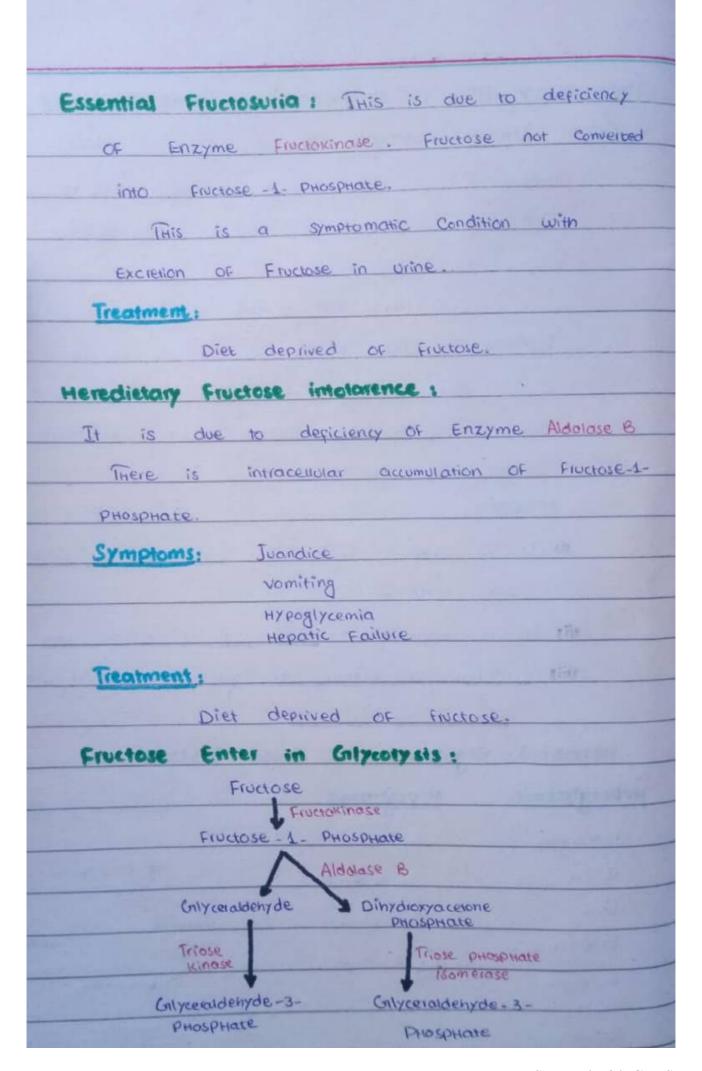


ATP production
3 NADH → 3 x 2.5 = 7.5
1 FADH2 - 1.5 ATP = 1.5
1 Substrate level -> 1 ATP = 1
Phosphoryration 10 ATP
Amphibolic Nature OF Citric Acid cycle:
krebs cycle is both Catabolic and Anabolic
in nature Hênce reffered as Amphibolic.
The citric Acid cycle provides many
intermediates for synthesis of many Compound
needed by body.
TCA cycle Actively involved in s) Giluconeogenesis
3) Transamination
3) Deamination
Catabolic role: Acetyl-coA is formed from CHO.
Protein and Upid and oxidized into Co. and the E Energy
Anabolic role: There is importanta Anabolic reaction.
of Asparate
Oxaloacetate is a piecuisor of Aspartate Alpha Ketoglutarate can made into Gilutamate
con contracts of Heme.
a) Succinyl-COA used FOO Synthesis citiate u) Mitochondria matrix transported to cytosol and cleave
A CANAL COA - require for synthesis of Sterol, FFAs.





Give reason. Complication and Treatment of Galacte
Semia:
Accumulation of free Galactose Leading to
Chalactosemia. It is a rare congenital disease
in infants inherited as autosomal recessive disorder.
Gralactose metabolism is impaired Leading
to High level or Galucose in Blood Englactosemia
and in urine Gnavacrosuria.
Couse:
Gravactose - 1 - Phosphate Unidy! Transferase
Symptoms 2) Mental Retardation
2) Nomiting
3) Diarrhea
y juandice
s) Renal Failure
6) Hepatomegaly
Treatment:
Removal OF Galactose (lactore free diet)



How many	ATP is Synthesized in HMP Shunt and
Give Sig	nificance of it's:
NO	ATP is used or generate in HMP-short
	HMP- SHUNE is important in generating
	important Products.
	1) Pentoses 2) NADPH
	The most important pentose is ribose
	Phosphate. The pentose and its derivatives are
Use	for synthesis of Nucleic Acid eng RNA, DNA.
Nu	cleotide e.g ATP, ADP
NAD	PH:
es It	is involve in reductive biosynthesis of Sterols
	and Fatty acid.
(i) It	is required to present transperancy of Lens
(iii) Sy	inthesis Of Certain Aminoacids increasing Enzyme
	Enlutamate dehydrogenase
Hormonal	Regulation of Blood Glucose:
Hy Perglycemic	Hypoglycemic
Glucagon	insulin
ACTH	A Blood Mucese
Cont	Somatomedins
Epinephone	Somotostatins Colucagon insulin sec
Estrogen ADH	dry Surfanyinease + Bundyan
Corriso	

