PASSION ACADEMIC TEAM yu-medicine

Cardiovascular System

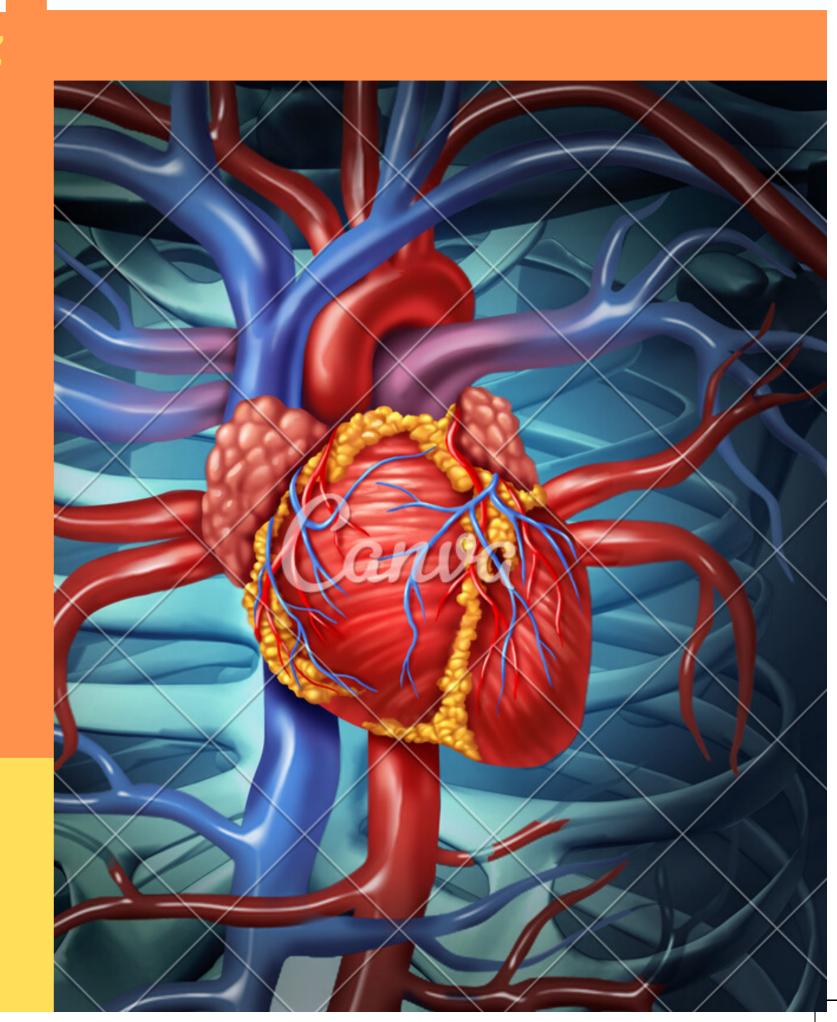
Sheet# 1 + 2 + 3 + 4 - BIOCHEMISTRY

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Lec. Title: Suggested Questions

Written By: Bayan Maqableh

If you come by any mistake, please kindly report it to shaghafbatch@gmail.com



Biochem 1:

- 1- process used as immediate source of ATP : phosphogen system
- 2- primary source of energy in fetal heart : lactate and glucose
- 3- phosphocreatine in vertebrates and phosphoarginine in invertebrates : True
- 4-an intracellular energy shuttle which facilitates transport of high energy phosphate from muscle cell mitochondria to myofibrils:

creatine phosphate shuttle

5- in liver, acetyl CoA will be: used to form ketone bodies

Biochem 2:

- 1- FA convert to Acyl CoA by:
 - thokinase enzyme
- 2- acylcarnitine convert to Acyl CoA and carnitine in mitochondrial matrix by:

 CPT2
- 3- the correct order of reactions in beta oxidation process:
 - oxidation hydration oxidation thiolysis
- 4- If we compare between ATP per carbon FFA and glucose, FFA give more ATP per carbon than glucose.

True

5- the density of a lipoprotein decreases as the proportion of lipid to protein increases.

True

6- surface receptor(apoprtein) of LDL:

B-100

Biochem 3:

1-all 27C of FA derived from:

Acetate

2- HMGR convert HMG CoA to:

mevalonate

3- first cyclic compound in cholesterol biosynthesis:

Lanosterol

4- the correct arrangement of cholesterol biosynthesis:

Mevalonate, IPP, squalene, lanosterol.

5- Active form of HMG CoA reductase is dephosphorylated form , if it is phosphorylated will be inactive

True

Biochem 4:

1- more specific marker test:

troponin

2- CK MM present in:

skeletal muscle tissue

3-cardiac enzyme use to diagnose heart failure :

BNP

4-HDL removes excess cholesterol from tissues and routes into the liver for reprocessing or removal

True

Good luck