

PASSION ACADEMIC TEAM

YU - MEDICINE

Cardiovascular System

Sheet# 1 + 2 + 3 + 4 - BIOCHEMISTRY

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Lec. Title : Suggested Questions

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If you come by any mistake , please
kindly report it to
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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