- Biochm. Final Exam Qus 2013:

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** Notes: The exam was 50 qus, for the chapters (17, 18, 19, 20, 21, 23)
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- Lovastatin is a drug that works by :
- a) decrease the HDL
- b) increae the HDL
- c) inhibit HMG-reductase

Answer: C (this gus is from chapter 21, regarding the cholesterol)

- the delta G for the conversion of (Pyruvate into Acetyl-coA) is :
- a) exergoninc and equal to -38
- b) endorgonic and equal to 38
- c) exorgonic and equal to -33.4
- d) endorgonic and equal to 33.4

Answer: C (chapter 19 table 19.2 ..)

- The amount of ATP that is produced from 1 phsophoenolypyruvate by entering the kribs cycle , and the ETC :
- a)16
- b) 27
- c) 13.5
- d) 11.5

Answer: C (1 PEP will give 1 ATP in the glycgolysis, and it will be converted to 1 pyruvate, this pyruvate will give 1 NADH to be converted into Acetyl-CoA (which equal to 2.5) now the 1 acetyl-CoA will give 10 ATP) >> I might be wrong in this calculations but the choices were like this and I spend 5 min thinking of this qus: P but just make sure and do it by ur self ©

- according to metabolic water , Kangaroo rats , which is wrong about them :
- a) they eat seeds which contain enough lipid and water for them
- b) they are able to extract water from lipids during metabolism

Answer: A (all the choices as I remmbere where 100% correct except the 1st one, cause in the book, and the doctor mention this in the lecture " this type of animals don't drink water at all it just eat the seeds, and from the metabolism of the lipids they get their water) so there is no water in the seeds ©

^{**} I will mention the hardest gus only that I could remember

- regarding cholesterol, what is the correct statement:
- a) 12 carbon atoms from the carboxyl carbon of the acetyl group
- b) 6 units of isoporene condense to form squalene
- c) 15 carbon atoms from the methyl carbon of the acetyl group
- d) all of the above

Answer: D (I really can't remember the exact choices so I made them all correct but pls be careful they might change any word in any choice so it will change everything! just notice this gus is from chapter 21, regarding the cholesterol biosyn.)

- The correct sequence of reactions to convert succyinly-CoA into oxaloacettae is :
- a) oxidation hydration oxidation hydrolyze
- b) hydrolyze oxidation hydration oxidation
- c) oxidation oxidation hydration hydrolyze

Answer: B

- regarding the conversion of propincyl into succinly-coA, what is the wrong:
- a) it need ATP
- b) it need vitamin B6 which contain cobalt
- c) this case happen in the odd number of fatty acids

Answer: B (it needs vitamin B 12)

- which of the following can transfer 2 electrons and is important in Q cycle:
- a) complex 1
- b) CoQ
- c) FMN

Answer: B

- * qus regarding chapter 23 :
- the nitrogenase enzyme contain :
- a) ferredoxin
- b) dinitrogenase reductase
- c) dintrirogenase
- d) all of the above

Answer: D

(That what I could remember from the final exam , these were the hardest qus only , the other qus where simple and direct and u can answer them easily inshallah)

Best wishes to all of you ⁽³⁾

Done by: omar sawas