

Biochemistry2 questions (**MID**)
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The answers might not be correct, sorry for any mistake! GOOD LUCK.

1. Krebs cycle graph and asks about rate limiting step:

Step 3

2. A pregnant woman suffering from galactosemia, it wouldn't be a problem if she had:

Udp-glucose epimerase

3. Wrong statement:

One G-6-P in PPP gives 3 CO₂ and 1 G3Ap

4. Excess glycogen in muscle with normal blood sugar and is a problem in muscle's:

glycogen phosphorylase

5. Wrong about ADP/ATP translocase:

Mitochondrial DNA inheritance

6. Iso citrate and alpha keto glutarate and citrate and succinyl coA structures and asks which statement is right:

Reaction making alpha ketooglutarate "رقمه كان ٢" from isocitrate "رقمه ٣" is rate limiting

7. Fruit pits contain cyanide and thus affect:

Complex 4

8. Inhibit ATP synthase directly:

Oligomycin

9. a reaction with ATP yield in mitochondria = ATP yield in cytosol:

Oxaloacetate to malate

10. Severe hypoglycemia:

G-6-Phosphatase

11. Enzyme doesn't produce free radicals or ROS:

Catalase

12. One of these is not involved in the activity of PKA:

Activation of Phosphodiesterase

13. Right statement about Aldose reductase:

**All of the above كان في خيارين produces sorbitol from glucose
Produces galacticol from galactose**

14. An enzyme which its product is involved in a reaction which produces ATP by substrate level phosphorylation:

Enolase

15. Involved in both glycogen lysis and glycogen synthesis:

Production of Glucose 1 p

16. **Stearic**

17. Uncoupling oxidative phosphorylation:

Decrease body mass

18. ATP: **all**

19. NADH: **Source of electrons**

20. Well fed state:

Glycogen synthesis and glycolysis

21. Wrong about NO:

Synthesized from Asparagine

22. Determines Respiratory rate:

level of ADP

23. **10,11,15**

24. Excess consumption of ethanol inhibits gluconeogenesis by:

Excess NADH

25. Wrong about mitochondrial DNA mutations:

Affect any subunit in respiratory chain

26. An enzyme that doesn't produce NADH:

Succinate dehydrogenase

27. Right about fructose 2,6-bisphosphate:

High insulin/glucagon ratio

28. ATP yield if fumarase was inhibited:

7.5 moles

29. **-8**

30. Wrong statement about intestinal brush border:

Glut 5 is Na dependent

31. Intermediate between Glucose six phosphate and ribulose five phosphate:

Sedoheptulose

32. Mismatch between enzyme and its allosteric effector:

PFK-->Glucose-2,6 bisphosphate

33. Not important in gluconeogenesis:

Acetyl coa

34. Which reaction(s) would be favorable:

Pk= All of the above

35. Glycerol's fate:

Turned to dihydroxyacetone in liver

36. Phosphorylase b activated by :

AMP

37. Both Ethanol from pyruvate and lactate from pyruvate reactions:

Oxidize NADH to NAD+

38. Ischemic tissue:

Increase glycolysis and the source of glucose is glycogen

39. Wrong about G6PD:

Reduced ATP

40. Reaction with $\Delta G^\circ = -0.4$, at equilibrium:

NADH>NAD+