Virtual University of Pakistan

BIO303

Biochemistry II

Final Past Papers

Bio303- Biochemistry II (18-08-2017)

Total Q 45 36 Mcqs 5 short Q (2 and 3 marks)

1. Why pure water carries electric Current? (2)

2. What is the activation energy reflect the rate of reaction? (2)

3. The function of cofactor in pyruvate dehydrogenase coenzyme A? (2)

4. Which ions are formed due to ionization of water.? and what happens to H+ ions? (3) 5. what is non competitive inhibitor and how it is different from competitive inhibitor? (3) 4 long Q (5 and 10 marks)

1. what is ph? and describe ph with respect to water at 25 centigrade. (5)
2. what is competitive inhibitor? and explain what is effect on Vmax? (5)
3. write 10 steps of citric acid cycle with its enzymes names in each step. (10)
4. Describe mechanism of enzyme action. and depict how activation energy affect reaction rate?10 bio 303 (Biochemistry 2) time: 2:30 15/8/17 why pure water conduct electricity? which ions are formed due to ionization of water.? and what happens to H+ ions? what is non competitive inhibitor and how it is different from competitive inhibitor?

what is ph? and describe ph with respect to water at 25 centigrade. write 10 steps of citric acid cycle with its enzymes names in each step.

describe mechanism of enzyme action. and depict how activation energy affect reaction rate?

what is competitive inhibitor? and explain what is effect on Vmax?

The function of cofactor in pyruvate dehydrogenase coenzyme

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Q: 1 what is half reaction?

Q 2 : Define pH. according to the equations on 25 degree centigrade ?
Q 3 : competetive inhibition ,

Q4 : Incompetitve inhibitors , how it is d/f from competetive

Q5 : how enzyme defict the reaction rate ,

Q6: mechanism of enzyme action, 10 marks

Q7 : citric acid cycle 10 marks

1 what is half reaction?

Q 2 : Define pH. according to the equations on 25 degree centigrade ?

Q 3 : competetive inhibition ,

Q4 : Incompetitve inhibitors , how it is d/f from competetive

Q5 : how enzyme defict the reaction rate ,(thk se yad ni ye ques)

Q6: mechanism of enzyme action, 10 marks

Q7 : citric acid cycle 10 marks

bio303 paper : 25 feb

Q: 1shape of rRna

Q 2 : Define pH. according to the equations on 25 degree centigrade ?

Q 3 : competetive inhibition ,

Q4 : Incompetitve inhibitors , how it is d/f from competitive

Q5 : what is activation energy.

Q6: mechanism of enzyme action, 10 marks

Q7 : citric acid cycle 10 marks

1.Bioengetics..

2.Define ph. Using equation explain ph of water at 25 centi degree.

3.Ionization.

4.Why pure water is pass more electrical current.

5.Competitive inhibition

6.Incompetitive inhibition (5marks)

7.citric acid cycle. Write 10 steps with names (10 marks)

8. Mechanism of Enzyme activity. Explain how enzyme deficit the enzyme activity

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Define hyperchromicity of denaturation of DNA.

How pure water produce electric current.
Defin upstream processing. 3 marks
Defin ph and explain it with reference of 25 degree temperature of water. 5 marks
How Activation energy reflect rate of reaction? 3 marks
Explain binding site of ligand
What are ligands. 5 narks
Oxidation of pyruvate and name three catabolic routes of glycolosis. 5 marks
What is the function of pyruvate dehydrogenase enzyme as a cofector in glycolysis. 2 marks
Which ions are formed during ionization of water and what happens to H+ ion. 3 marks
Citric acid cycle with enzym name at each stage. 10 marks