Assignment 10

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

1) Match the following amino acids with the alpha carbon's isomer that is formed when they undergo transamination with alpha keto-glutarate.

<table>
<thead>
<tr>
<th>Amino Acid</th>
<th>Alpha Carbon's Isomer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alanine</td>
<td>A</td>
</tr>
<tr>
<td>Asparagine</td>
<td>B</td>
</tr>
<tr>
<td>Glutamic</td>
<td>C</td>
</tr>
<tr>
<td>Aspartic</td>
<td>D</td>
</tr>
<tr>
<td>Proline</td>
<td>E</td>
</tr>
</tbody>
</table>

No the answer is incorrect.

Accepted Answers:
A) 5
B) 4
C) 3
D) 2
E) 1

2) Which of the following reactions is not a part of the regulation of glutamine synthetase?

- UTP depletion
- Phosphorylation of PRP
- Activation of glutamine synthetase
- Activation of glutamine synthetase
- Phosphate ester regulation by Triphosphate

No the answer is incorrect.

Accepted Answer:
Triphosphate

3) Which of the following statements are TRUE?

- Glycogen phosphorylase has no effect on carbonic anhydrase; ammonia has two points of entry into the cycle.
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No the answer is incorrect.

Accepted Answer:
Triphosphate

4) Consider that 10% of insulin secretion from an adult weighing 80 kg consists of insulin. What is the total insulin secreted per day? (Report answer as a single integer. All decimals rounded off)

No the answer is incorrect.

Accepted Answer:
Triphosphate

5) Which of the following processes will be affected if bile salts are not produced?

- Bile salt production
- Bile salt synthesis
- Bile salt storage
- Taurine conjugation
- Bile salt secretion

No the answer is incorrect.

Accepted Answer:
Triphosphate

6) Draw the structure of the molecule that is formed when inorganic ammonium is added to serine. (Report answer as a single integer. All decimals rounded off)

No the answer is incorrect.

Accepted Answer:
Triphosphate

7) Reduce the transfer of the gene from the soybean plant to a different legume plant called Lotus. Discuss the role of the new gene product in the plant and its interaction with the original gene product. Explain how the gene they have isolated is expressed only in the root nodules containing rhizobia. What protein might the gene encode?

No the answer is incorrect.

Accepted Answer:
Triphosphate

8) Shown in the image below is the molecule guanidinoacetate acid (GAA). Which amino acid is the immediate precursor of guanidinoacetate acid?

No the answer is incorrect.

Accepted Answer:
Triphosphate