

# Unit 4 - Plant Physiology - Masterclass MCQs

#### Contact Number: 9667591930 / 8527521718

The correct chronological stages of the Calvin cycle will be:

Carboxylation → Reduction → Regeneration

Carboxylation → Regeneration → Reduction

Regeneration → Reduction → Carboxylation

Reduction → Regeneration → Carboxylation

10. In the photorespiratory pathway:

I. there is no synthesis of sugars

II. there is release of carbon dioxide with the utilization of ATP

III. ATP is synthesized but NADPH is not synthesized

1. Only I and II are correct

2. Only I and III are correct

3. Only II and III are correct

4. I, II and III are correct

11. Consider the given two statements:

Statement I: Despite the presence of a green leaf and optimal light and carbon dioxide conditions, the plant may not photosynthesize if the temperature is very low. Statement II: If a chemical process is affected by more than one factor, then its rate will be determined by the factor which is nearest to its minimal value.

 Both Statement I and Statement II are correct and Statement II explains Statement I

2. Both Statement I and Statement II are correct but Statement II does not explain Statement I

3. Statement I is correct but Statement II is incorrect

4. Statement I is incorrect but Statement II is correct

12. What percentage in atmosphere of carbon dioxide can become damaging to plants over long periods?

1. 0.03 to 0.04

2. 0.04 to 0.05

3. 0.05

4, more than 0.05

13. Consider the two statements:

Statement I: ATP is used as the energy currency of the cell.

Statement II: ATP molecule has two high energy bonds.

1. Both Statement I and Statement II are correct and Statement II explains Statement I

2. Both Statement I and Statement II are correct but Statement II does not explain Statement I

3. Statement I is correct but Statement II is incorrect

14. Cellular respiration includes:

I: Transport of gases from the respiratory surface to the cells

II. Breakdown of food material within the cell to release energy

III. Trapping of energy released during the breakdown of food material within the cell for synthesis of ATP

I. Only I and II

Only I and III

3. Only II and III.

4. I, II and III

15. Consider the two statements:

Statement I: Inside a cell, the glucose molecule is oxidised not in one step but in several small steps. Statement II: Some steps will be just large enough such

that energy liberated can be coupled to ATP synthesis.

1. Both Statement I and Statement II are correct and

Statement II explains Statement I

2. Both Statement I and Statement II are correct but
Statement II does not explain Statement I

3. Statement I is correct but Statement II is incorrect

4. Statement I is incorrect but Statement II is correct

16. The number of metabolic steps in EMP pathway where glucose undergoes partial oxidation to form two molecules of pyruvic acid is:

1. 8

2. 9

3. 10

4, 11

17. In glycolysis ATP is synthesised:

 during conversion of 1,3 biphosphoglyceric acid to 3phosphoglyceric acid and during conversion of phosphoenolpuruvate to pyruvic acid

 during conversion of glucose to glucose-6-phospate and during conversion of fructose-6-phosphate to fructose – 1,6- biphosphate

 during conversion of glucose to glucose-6-phospate and during conversion of glucose-6-phosphate to fructose-6- phosphate

 during conversion of 3-phosphoglyceric acid to 2phosphoglycerate and during conversion of 2phosphoglycerate to phosphoenolpuruvate

18. The net gain of number of ATP molecules during glycolysis will be:

1. 2

3. 6

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