

# Biology 30 Plant Form and Physiology MCQ

Author: OpenStax College

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## 4. Chapter: Biology 30 Plant Form and Physiology MCQ

### 1. Biology 30 Plant Form and Physiology MCQ Questions

4.1.1. Plant regions of continuous growth are made up of \_\_\_\_\_.

Author: OpenStax College

Plant regions of continuous growth are made up of \_\_\_\_\_.

Please choose only one answer:

- dermal tissue
- vascular tissue
- meristematic tissue
- permanent tissue

Check the answer of this question online at QuizOver.com:

Question: [Plant regions of continuous growth are OpenStax College Biology 3](#)

Flashcards:

<http://www.quizover.com/flashcards/plant-regions-of-continuous-growth-are-openstax-college-biology-3?pdf=1505>

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#### 4.1.2. Which of the following is the major site of photosynthesis?

Author: OpenStax College

Which of the following is the major site of photosynthesis?

Please choose only one answer:

- apical meristem
- ground tissue
- xylem cells
- phloem cells

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is the major site OpenStax College Biology](#)

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4.1.3. Stem regions at which leaves are attached are called \_\_\_\_\_.

Author: OpenStax College

Stem regions at which leaves are attached are called \_\_\_\_\_.

Please choose only one answer:

- trichomes
- lenticels
- nodes
- internodes

Check the answer of this question online at QuizOver.com:

Question: [Stem regions at which leaves are attached OpenStax College Biology](#)

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#### 4.1.4. Which of the following cell types forms most of the inside of a plant?

Author: OpenStax College

Which of the following cell types forms most of the inside of a plant?

Please choose only one answer:

- meristem cells
- collenchyma cells
- sclerenchyma cells
- parenchyma cells

Check the answer of this question online at QuizOver.com:

Question: [Which of the following cell types forms OpenStax College Biology](#)

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#### 4.1.5. Tracheids, vessel elements, sieve-tube cells, and companion cells a...

Author: OpenStax College

Tracheids, vessel elements, sieve-tube cells, and companion cells are components of \_\_\_\_\_.

Please choose only one answer:

- vascular tissue
- meristematic tissue
- ground tissue
- dermal tissue

Check the answer of this question online at QuizOver.com:

Question: [Tracheids vessel elements sieve-tube cells OpenStax College Biology](#)

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4.1.6. The primary growth of a plant is due to the action of the \_\_\_\_\_.

Author: OpenStax College

The primary growth of a plant is due to the action of the \_\_\_\_\_.

Please choose only one answer:

- lateral meristem
- vascular cambium
- apical meristem
- cork cambium

Check the answer of this question online at QuizOver.com:

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#### 4.1.7. Which of the following is an example of secondary growth?

Author: OpenStax College

Which of the following is an example of secondary growth?

Please choose only one answer:

- increase in length
- increase in thickness or girth
- increase in root hairs
- increase in leaf number

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is an example of OpenStax College Biology](#)

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4.1.8. Secondary growth in stems is usually seen in \_\_\_\_\_.

Author: OpenStax College

Secondary growth in stems is usually seen in \_\_\_\_\_.

Please choose only one answer:

- monocots
- dicots
- both monocots and dicots
- neither monocots nor dicots

Check the answer of this question online at QuizOver.com:

Question: [Secondary growth in stems is usually seen OpenStax College Biology](#)

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4.1.9. Roots that enable a plant to grow on another plant are called \_\_\_\_\_...

Author: OpenStax College

Roots that enable a plant to grow on another plant are called \_\_\_\_\_.

Please choose only one answer:

- epiphytic roots
- prop roots
- adventitious roots
- aerial roots

Check the answer of this question online at QuizOver.com:

Question: [Roots that enable a plant to grow on OpenStax College Biology 30](#)

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4.1.10. The \_\_\_\_\_ forces selective uptake of minerals in the root.

Author: OpenStax College

The \_\_\_\_\_ forces selective uptake of minerals in the root.

Please choose only one answer:

- pericycle
- epidermis
- endodermis
- root cap

Check the answer of this question online at QuizOver.com:

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#### 4.1.11. Newly-formed root cells begin to form different cell types in the \_...

Author: OpenStax College

Newly-formed root cells begin to form different cell types in the \_\_\_\_\_.

Please choose only one answer:

- zone of elongation
- zone of maturation
- root meristem
- zone of cell division

Check the answer of this question online at QuizOver.com:

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4.1.12. The stalk of a leaf is known as the \_\_\_\_\_.

Author: OpenStax College

The stalk of a leaf is known as the \_\_\_\_\_.

Please choose only one answer:

- petiole
- lamina
- stipule
- rachis

Check the answer of this question online at QuizOver.com:

Question: [The stalk of a leaf is known as the . OpenStax College Biology 30](#)

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4.1.13. Leaflets are a characteristic of \_\_\_\_\_ leaves.

Author: OpenStax College

Leaflets are a characteristic of \_\_\_\_\_ leaves.

Please choose only one answer:

- alternate
- whorled
- compound
- opposite

Check the answer of this question online at QuizOver.com:

Question: [Leaflets are a characteristic of leaves. OpenStax College Biology](#)

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4.1.14. Cells of the \_\_\_\_\_ contain chloroplasts.

Author: OpenStax College

Cells of the \_\_\_\_\_ contain chloroplasts.

Please choose only one answer:

- epidermis
- vascular tissue
- stomata
- mesophyll

Check the answer of this question online at QuizOver.com:

Question: [Cells of the contain chloroplasts. OpenStax College Biology 30 Quest](#)

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#### 4.1.15. Which of the following is most likely to be found in a desert envir...

Author: OpenStax College

Which of the following is most likely to be found in a desert environment?

Please choose only one answer:

- broad leaves to capture sunlight
- spines instead of leaves
- needle-like leaves
- wide, flat leaves that can float

Check the answer of this question online at QuizOver.com:

Question: [Which of the following is most likely to OpenStax College Biology](#)

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#### 4.1.16. When stomata open, what occurs?

Author: OpenStax College

When stomata open, what occurs?

Please choose only one answer:

- Water vapor is lost to the external environment, increasing the rate of transpiration.
- Water vapor is lost to the external environment, decreasing the rate of transpiration.
- Water vapor enters the spaces in the mesophyll, increasing the rate of transpiration.
- Water vapor enters the spaces in the mesophyll, increasing the rate of transpiration.

Check the answer of this question online at QuizOver.com:

Question: [When stomata open what occurs OpenStax College Biology 30 Plant Quest](#)

Flashcards:

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#### 4.1.17. Which cells are responsible for the movement of photosynthates thro...

Author: OpenStax College

Which cells are responsible for the movement of photosynthates through a plant?

Please choose only one answer:

- tracheids, vessel elements
- tracheids, companion cells
- vessel elements, companion cells
- sieve-tube elements, companion cells

Check the answer of this question online at QuizOver.com:

Question: [Which cells are responsible for the movement OpenStax College Biology](#)

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4.1.18. The main photoreceptor that triggers phototropism is a \_\_\_\_\_.

Author: OpenStax College

The main photoreceptor that triggers phototropism is a \_\_\_\_\_.

Please choose only one answer:

- phytochrome
- cryptochrome
- phototropin
- carotenoid

Check the answer of this question online at QuizOver.com:

Question: [The main photoreceptor that triggers OpenStax College Biology 30](#)

Flashcards:

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#### 4.1.19. Phytochrome is a plant pigment protein that:

Author: OpenStax College

Phytochrome is a plant pigment protein that:

Please choose only one answer:

- mediates plant infection
- promotes plant growth
- mediates morphological changes in response to red and far-red light
- inhibits plant growth

Check the answer of this question online at QuizOver.com:

Question: [Phytochrome is a plant pigment protein OpenStax College Biology 3](#)

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#### 4.1.20. A mutant plant has roots that grow in all directions. Which of the ...

Author: OpenStax College

A mutant plant has roots that grow in all directions. Which of the following organelles would you expect to be missing in the cell?

Please choose only one answer:

- mitochondria
- amyloplast
- chloroplast
- nucleus

Check the answer of this question online at QuizOver.com:

Question: [A mutant plant has roots that grow in all OpenStax College Biology](#)

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#### 4.1.21. After buying green bananas or unripe avocados, they can be kept in...

Author: OpenStax College

After buying green bananas or unripe avocados, they can be kept in a brown bag to ripen. The hormone released by the fruit and trapped in the bag is probably:

Please choose only one answer:

- abscisic acid
- cytokinin
- ethylene
- gibberellic acid

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [After buying green bananas or unripe OpenStax College Biology 30](#)

Flashcards:

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#### 4.1.22. A decrease in the level of which hormone releases seeds from dormancy?

Author: OpenStax College

A decrease in the level of which hormone releases seeds from dormancy?

Please choose only one answer:

- abscisic acid
- cytokinin
- ethylene
- gibberellic acid

Check the answer of this question online at QuizOver.com:

Question: [A decrease in the level of which hormone OpenStax College Biology](#)

Flashcards:

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#### 4.1.23. A seedling germinating under a stone grows at an angle away from th...

Author: OpenStax College

A seedling germinating under a stone grows at an angle away from the stone and upward. This response to touch is called \_\_\_\_\_.

Please choose only one answer:

- gravitropism
- thigmonasty
- thigmotropism
- skototropism

Check the answer of this question online at QuizOver.com:

Question: [A seedling germinating under a stone grows OpenStax College Biology](#)

Flashcards:

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