



**ABHIGYAN
ACADEMY**

PLANT TISSUES PYQs (2014-2024)



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Which one of the following elements is essential for the formation of chlorophyll in green plants?

- (a) Calcium
- (b) Iron
- (c) Magnesium
- (d) Potassium



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1. Which one of the following polymers **does not** contain glucose units?

- (a) Glycogen
- (b) Starch
- (c) Cellulose
- (d) Rubber



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- i. The plant growth regulators are small, simple molecules of diverse chemical composition. They are
- (a) carbohydrates, fats and proteins
 - (b) indole compounds, adenine derivatives, carotenoids and terpenes
 - (c) fatty acids, glucose and vitamins
 - (d) vitamin C, vitamin D and glucose



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117. Plants prepare glucose in the process of :

- (a) respiration
- ☒ (b) photosynthesis
- (c) degradation
- (d) mineral absorption



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17. In plant cells

- (a) Nucleus does not need a membrane but chloroplasts are surrounded by their own membrane.
- ✓ (b) Nucleus and chloroplasts are surrounded separately by their own membrane.
- (c) Nucleus is surrounded by membrane but chloroplasts do not need membrane.
- (d) Both nucleus and chloroplasts are not surrounded by any membrane.



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19. Which one of the following statements about the process of photosynthesis is correct ?

- (a) Light energy is directly converted to kinetic energy which oxidizes carbon dioxide.
- (b) Light energy is directly converted to chemical energy which causes reduction of water.
- (c) Chlorophyll absorbs the chemical energy of light which causes oxidation of carbon dioxide.
- (d) ☒ Chlorophyll absorbs light energy which causes splitting of water molecules and reduction of carbon dioxide.



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16. Which one of the following is the correct sequence of events during sexual reproduction in plants?

- (a) Seedling, formation of embryo, pollination, fertilization, division of zygote
- (b) Formation of embryo, seedling, pollination, fertilization, division of zygote
- (c) Pollination, fertilization, division of zygote, formation of embryo, seedling
- (d) Seedling, formation of embryo, division of zygote, pollination, fertilization



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107. Which one of the following statements about phloem is correct?

- (a) Phloem transports water and minerals.
- (b) Phloem transports photosynthetic products.
- (c) Phloem is a simple tissue.
- (d) Phloem gives support to the plant.

108. Mature sclerenchyma cells have

- (a) cellulose wall and are living
- (b) lignified wall and are living
- (c) suberized wall and are dead
- (d) lignified wall and are dead



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65. Which one of the following tissues is responsible for increase of girth in the stem of a plant?

- (a) Tracheid
- (b) Pericycle
- (c) Intercalary meristem
- (d) Lateral meristem



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28. Which set of vegetables is underground stem or modified stem of a plant?

- (a) Potato, artichoke, round gourd
- (b) Onion, garlic, carrot
- (c) Potato, onion, garlic
- (d) Potato, garlic, turnip



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16. Water goes up through xylem vessels in tall trees. The process in plants and properties of water that help in upward movement are :

- (a) Respiration and cohesion
- (b) Transpiration pull, cohesion and adhesion
- (c) Root pressure, cohesion and adhesion
- (d) Transpiration and adhesion



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102. In grasses, intercalary meristem is usually located at

- (a) root tip
- ☒ (b) lateral sides of stem
- (c) base of leaves
- (d) shoot tip

103. Xylem is a type of complex tissue in plants for upward conduction of water. Which one of the following xylem tissues consists of living cells?

- (a) Tracheid
- (b) Vessel
- (c) Xylem parenchyma
- ☒ (d) Xylem fibre



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16. If the xylem of a plant is mechanically blocked, which of the following functions of the plant will be affected?

- (a) Transport of water only
- (b) Transport of water and solutes
- (c) Transport of solutes only
- (d) Transport of gases



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