

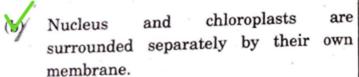


## In plant cells

Nucleus does not need a membrane but chloroplasts are surrounded by their own membrane.

chloroplasts

are



Nucleus is surrounded by membrane but (c) chloroplasts do not need membrane.

Both nucleus and chloroplasts are not (d) surrounded by any membrane.



- 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.



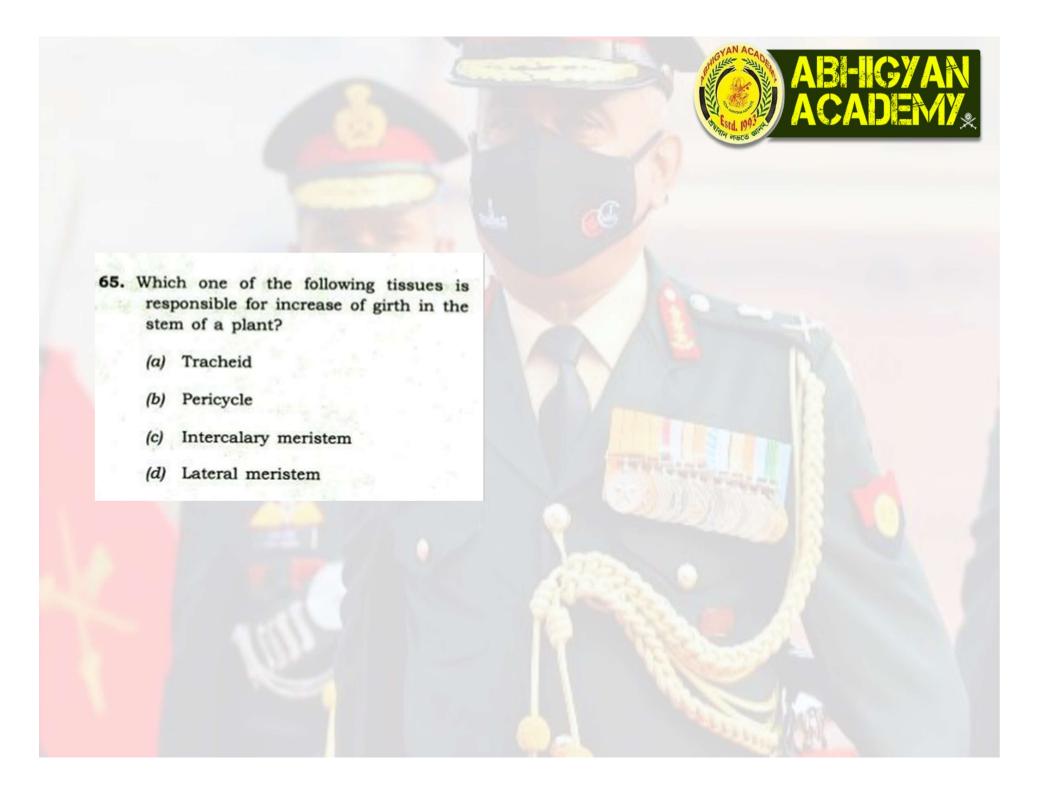
Chlorophyll absorbs light energy which causes splitting of water molecules and reduction of carbon dioxide.



- 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

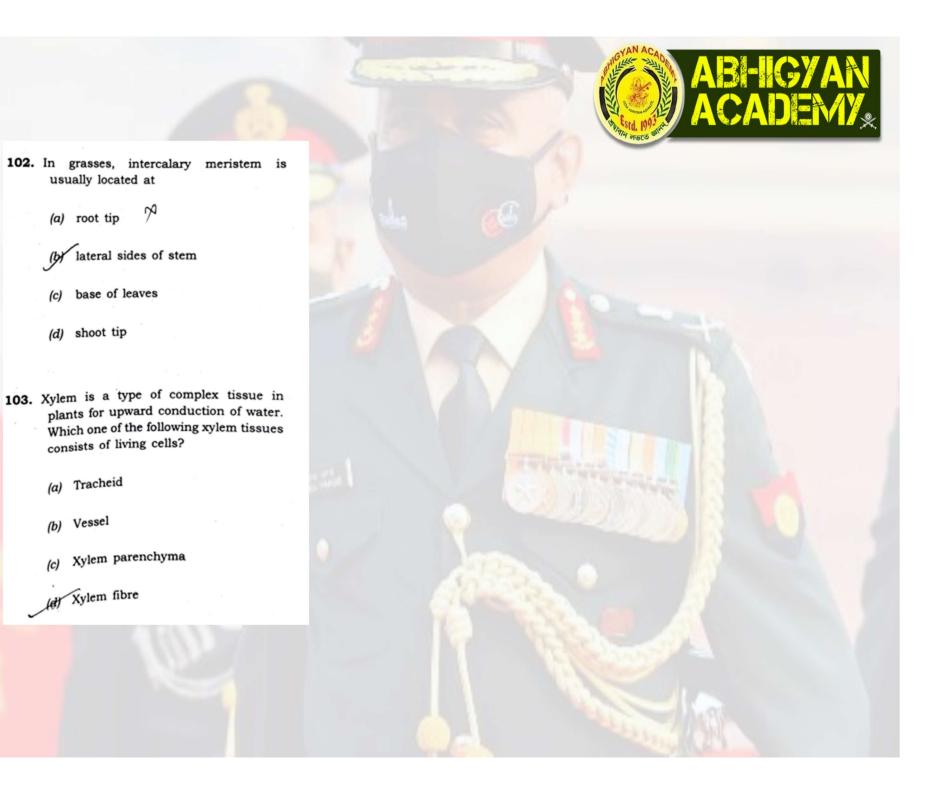


- 107. Which one of the following statements about phloem is correct?
  - (a) Phloem transports water and minerals.
  - (b) Phloem transports photosynthetic products.
  - (c) Phloem is a simple tissue.
  - (d) Phloem gives support to the plant.
- 108. Mature sclerenchyma cells have
  - (a) cellulose wall and are living
  - (b) lignified wall and are living
  - (c) suberized wall and are dead
  - (d) lignified wall and are dead









usually located at

(c) base of leaves

(b) lateral sides of stem

consists of living cells?

(c) Xylem parenchyma

(a) root tip

(d) shoot tip

(a) Tracheid

(b) Vessel

(a) Xylem fibre



- 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

