PYQs on Plant Tissues

. Cell wall of any fungus is different from plants in having

(a) cellulose

(b) chitin

(c) cholesterol

(d) glycogen

Which one of the following statements about meristematic tissues in plants is correct ?

(a) These are dead tissues and form wood

(b) They provide flexibility to plant due to their thickened walls

(c) These are present in the bark of a tree only

(d) Growth occurs in plants due to division of cells of these tissues

. Which one of the following is NOT a component of conducting tissue in plants ?

(a) Fibres

(b) Tracheids

(c) Pericycle

(d) Sieve tubes

Transformation of meristematic cells into specific permanent tissues occurs by the process of

(a) Cell differentiation.

(b) Cell division.

(c) Cell multiplication.

(d) Cell regeneration.

Which one of the following statements is correct ?

(a) Xylem consists of tracheids, vessels, xylem parenchyma and xylem fibres.

(b) Flexibility in plants is due to sclerenchyma.

(c) Parenchyma have no intercellular spaces.

(d) Xylem consists of sieve plate, sieve tube and companion cells.

Which one of the following plant tissues has dead cells ?

(a) Epidermis

(b) Parenchyma

(c) Collenchyma

(d) Sclerenchyma

The oxygen evolved during photo-synthesis comes from splitting of

(a) water

(b) carbon dioxide

(c) oxygen

(d) light

Damage to the apical meristem of a growing young plant will affect the

(a) length of the plant

(b) colour of the flower

(c) colour of the leaves

(d) taste of the fruits

. Consider the following statements about cactus :

1. The leaves are reduced to spines.

2. The stem does the photosynthesis.

Which of the statements given above is/are correct ?

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) Neither 1 nor 2

During a laboratory experiment, a student immerses epidermal leaf peel in a hypertonic solution. After some time, the student examined the cells under a microscope and observed that :

(a) the cells swelled.

(b) the cells were plasmolysed.

(c) the cells built up turgor pressure.

(d) the cells size was unaffected.