

Second Unit Test in BIOLOGY

Std. 11
03-12-2015

Time : 1 hr.
M. Marks: 20

1. What is meant by source and sink in plants with regard to translocation? (1)
2. Which of the following statements are true? If false, correct them: (1)
 - a) Every mineral element that is present in a cell is needed by the cell.
 - b) Nitrogen as a nutrient element is highly immobile in the plants.
3. Why is it that in certain plants, deficiency symptoms appear first in the younger parts of the plant while in others, they do so in mature organs? (1)
4. How will you denote water potential by writing a formula? (1)
5. Name the technique of growing plants in soil free, nutrient solution? What is the basic purpose of the experiment? (2)
6.
 - a) What is facilitated diffusion?
 - b) How symport transport is different from antiport transport? (2)
7. Why is leghaemoglobin so called? What is its function? (2)
8. State any four differences between C₃ and C₄ cycle. (2)
9. Draw a well labelled diagram of Chloroplast. (2)
10.
 - a) With the help of well-labelled diagrams, describe the process of plasmolysis in plants, giving appropriate examples.
 - b) Explain what will happen to a plant cell if it is kept in a solution with higher water potential. (3)
11.
 - a) Which photosystem is associated with the splitting of water during the process of photosynthesis?
 - b) Represent the 'Z' scheme of light reaction diagrammatically. (3)

(OR)

Schematically represent Calvin Cycle.

-x-x-x-x-x-