

Std. 11
26-11-2016

Third Unit Test in **BIOLOGY**

Time : 1 hr.
M. Marks: 20

General Instructions:-

- i) All questions are compulsory.
- ii) Give suitable examples and diagrams where ever required.

1. What are the factors affecting the rate of diffusion? (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. How is chlorosis different from Necrosis? (1)
4. When a cell gets plasmolysed? (1)
5. Compare Cyclic and Non- cyclic photophosphorylation. (2)
6. Depict Nitrogen cycle diagrammatically. (3)
7. Explain the process of ATP synthesis during light reaction. (3)
8.
 - a) Mention the Blackman's Law of Limiting Factors. (1)
 - b) Draw the structure of chloroplast and mention the sites of two phases of photosynthesis. (2)
9. Describe the transpiration pull model of water transport in plants. What are the factors influencing transpiration? How is it useful to plants?

(OR)

How will you explain the following:-

- a) How is guttation different from transpiration?
- b) What is the role of root pressure in plants?
- c) What is water potential? (5)

-X-X-X-X-X-