

Tejasvi Vidyarnya - PT-1 Science Exam (Class 7)

Subject: Science

Class: 7

Marks: 20

Syllabus: Nutrition in Plants

1. **Explain the importance of food for organisms. Why do organisms take food?**
2. **Differentiate between a parasite and a saprotroph. Provide examples for each.**
3. **Describe how you would test the presence of starch in leaves.**
4. **Provide a brief description of the process of synthesis of food in green plants.**
5. **Illustrate with a sketch showing that plants are the ultimate source of food.**

6. ****Fill in the blanks:****

- (a) Green plants are called _____ since they synthesise their own food.
- (b) The food synthesised by plants is stored as _____.
- (c) In photosynthesis solar energy is absorbed by the pigment called _____.
- (d) During photosynthesis plants take in _____ and release _____ gas.

7. ****Name the following:****

- (i) A parasitic plant with yellow, slender, and branched stem.
- (ii) A plant that is partially autotrophic.
- (iii) The pores through which leaves exchange gases.

8. ****Tick the correct answer:****

- (a) Cuscuta is an example of:
 - (i) autotroph
 - (ii) parasite
 - (iii) saprotroph
 - (iv) host
- (b) The plant which traps and feeds on insects is:
 - (i) Cuscuta
 - (ii) china rose
 - (iii) pitcher plant
 - (iv) rose

9. ****Match the items:****

- Chlorophyll
- Nitrogen
- Cuscuta
- Animals
- Insects

- Rhizobium
- Heterotrophs
- Pitcher plant
- Leaf
- Parasite

10. **True or False:**

- (i) Carbon dioxide is released during photosynthesis. (T/F)
- (ii) Plants which synthesise their food are called saprotrophs. (T/F)
- (iii) The