

WORKSHEET - A

1. Nutrition in Plants

1. Tick (3) the correct answer.

(a) Autotrophic means obtaining _____ nutrition.

(i) self ☐ (ii) fast ☐

(iii) slow ☐ (iv) all of these ☐

(b) A lichen is composed of

(i) virus and algae ☐ (ii) algae and protozoa ☐

(iii) fungus and bacteria ☐ (iv) algae and fungi ☐

(c) The cells which control opening or closing of stomata are

(i) junk cells ☐ (ii) shutter cells ☐

(iii) guard cells ☐ (iv) dead cells ☐

(d) The mutual association in which two different types of organisms live and work together for their mutual benefit is called

(i) parasitic nutrition ☐ (ii) saprotrophic nutrition ☐

(iii) heterotrophic ☐ (iv) symbiosis ☐

2. Circle the odd one. Give reason for your choice.

(a) Chlorophyll Carbon dioxide Sunlight Nitrogen

(b) *Utricularia* Venus flytrap *Cuscuta* *Drosera*

3. Complete the relation.

(a) Mushroom : Saprotrophs :: Lichen : _____

(b) *Cuscuta* : Total parasite :: Mistletoe : _____

4. Give one word for the following.

(a) Structure for absorbing ready-made food in parasites

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(b) Green-coloured bodies containing chlorophyll

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5. Give two examples of each.

- (a) Leguminous plants : _____
- (b) Heterotrophs : _____

6. Complete the following.

Carbon dioxide + Water $\xrightarrow[\text{Chlorophyll}]{\text{Sunlight}}$ _____ + _____

7. State whether the following statements are true or false. Rewrite the false statement correctly.

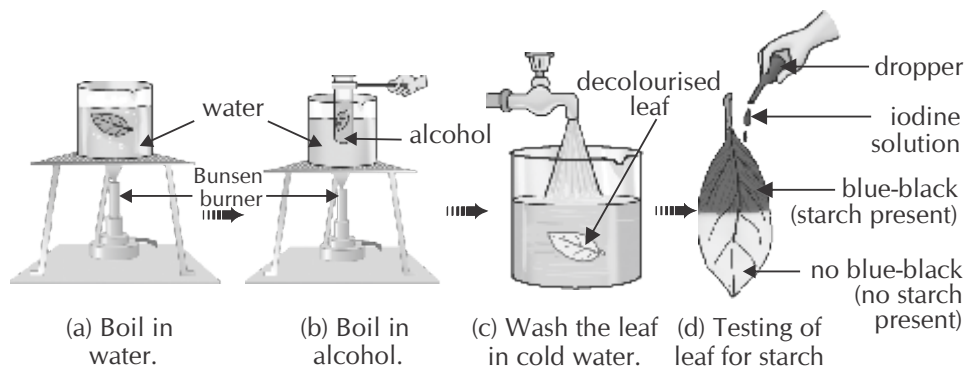
- (a) Rhizobium bacteria, living in the nodules of the roots of a leguminous plants, enrich the soil with nitrogen.

- (b) The algae does not contain chlorophyll and cannot make their own food.

- (c) Fungi are plants.

- (d) The extra glucose is changed into a complex carbohydrate called starch.

8. Look at the picture given below and answer the following.



- (a) Why upper half of leaf turns blue black?

- (b) Why lower half of leaf does not show this change?

- (c) What conclusion can be drawn from this activity?

