

1. Why do organisms need to take food?

Answer: Food is needed by all organisms for many purposes:

- (a) The main function of food is to help in growth.
- (b) Food provides energy for movements such as running, walking or raising our arm.
- (c) Food is also needed for replacement and repairing damaged parts of body.
- (d) Food gives us resistance to fight against diseases and protects us from infections
- 2. Distinguish between a parasite and a saprotroph. Answer:

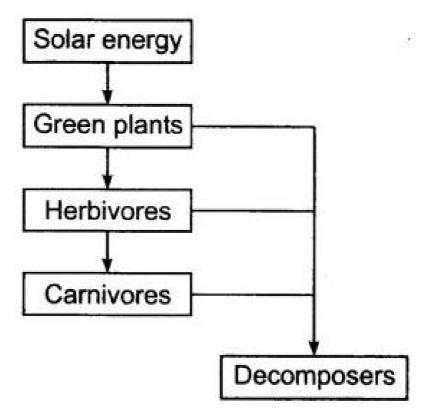
Parasite	Saprotrophs
(1) Parasite feeds on a living organism.	 (i) They feed on dead and decaying organism.
(ii) The organism on which it feeds is called host.	(ii) They do not feed on a living organism.

- 3. How would you test the presence of starch in leaves? Answer: The presence of starch in leaves can be tested by lodine test. When we remove chlorophyll from leaf by boiling it in alcohol and then put 2 drops of iodine solution, its colour change to blue indicates the presence of starch.
- 4. Give a brief description of the process of synthesis of food in green plants.

Answer: The green plants have chlorophyll in the leaves. The leaves use CO₂ and water to make food in presence of sunlight.

5. Show with the help of a sketch that the plants are the ultimate source of food.

Answer:



6. Fill in the blanks: (a) Green plants are called	since they synthesise
their own food.	
(b) The food synthesised by the plants is st	ored as
(c) In photosynthesis solar energy is captur called	red by the pigment
(d) During photosynthesis plants take in	and
release	and

Answer:

- (a) autotrophs
- (b) starch
- (c) chlorophyll
- (d) carbon dioxide, oxygen

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