



SUCCESS KEY TEST SERIES

IX- Semi English
(Worksheet-1 Science -2 (Ch-6,7))

Science And Technology 2-

DATE:

TIME: 1 hrs

MARKS: 20

SEAT NO:

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Q.1 Solve the following questions.

(2)

1) Find the odd one out

With respect to Photosynthesis process:

- a. Sunlight b. Mitochondria c. Chlorophyll d. Carbon dioxide

2) is the most important source of energy.

B) Choose the correct alternative and rewrite the sentence

(3)

1) When can we say the process is denitrification?

- a. Nitrogen gas is released
b. Nitrogen compounds react
c. Nitrogen gas is converted to nitrite
d. Nitrogen compound is excreted from the organisms

2) Which of the following is not a character of the given plant?

- a. evergreen, perennial and woody
b. male and female flowers on different sporophylls of the same plant.
c. do not form fruits
d. cotyledonous seeds

3) Maize is an example of

- a. Dicotyledonous plant b. Monocotyledonous plant c. Pteridophyte d. Gymnosperm

Q.2 Solve the following questions. (Any two)

(4)

1) Saprotrophs

2) All organisms participate in Nitrogen cycle.

3) Distinguish between

Phanerogams and Cryptogams

Q.3 Solve the following questions. (Any two)

(6)

1) The presence or absence of organs is one of the criterion for classification of plants.

2) The equilibrium of oxygen and carbon dioxide gases in the atmosphere is maintained by plants.

3) Sketch and label the figures of the following plants and explain them in brief.
Funaria

4) Correct and explain the given statement.

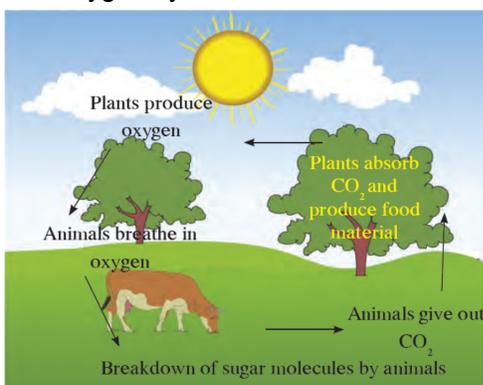
The flow of nutrients in an ecosystem is considered to be a 'one way' transport.

Q.4 Solve the following questions. (Any one)

(5)

- 1) There are different levels of energy exchange in the food chain. The initial quantity of energy goes on decreasing at every level of energy exchange. Similarly, the number of organisms also decreases from the lowest level to the highest level. This pattern of energy exchange in an ecosystem is called a 'Pyramid of energy'. After the death of apex consumers, their energy becomes available to the decomposers. Fungi and other micro-organisms decompose the bodies of dead animals. They are called decomposers. In the process of obtaining food from the remains of organisms, decomposers convert them into simple carbon compounds. These substances easily mix with air, water and soil from where they are again absorbed by plants and incorporated into the food chain. Due to the food web formed by the various modes of nutrition, energy and various nutrients circulate continuously in the ecosystem. The sun is the most important source of energy in any ecosystem. Green plants of the ecosystem store some of the solar energy in the form of food. Before reaching the decomposers, this energy is passed on from one trophic level to the next. Decomposers dissipate some amount of energy in the form of heat. However, no part of the energy ever returns to the sun. Hence, such passage of energy is referred to as 'one way' transport.
- Define 'pyramid of energy'.
 - What is a trophic level?
 - Which form of energy is converted into food?
 - Why the energy transport called 'one-way' transport?

2) The Oxygen cycle



- What amount of oxygen is available in the atmosphere?
- Which process mainly releases oxygen?
- Why do living organisms use oxygen?
- Other than respiration, give any two processes in which oxygen takes part?
- What are aerobes and anaerobes?