

## Second Term Evaluation 2017-18

### Basic Science

STD: VII

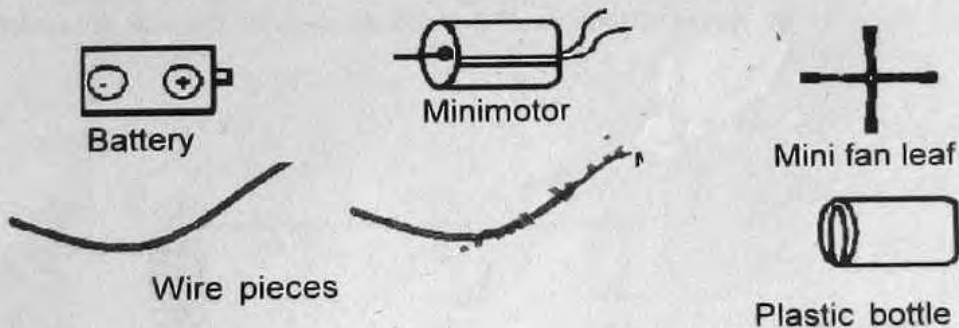
Time: 2 hrs

#### Instructions

- 15 minutes cool off time is to be used for reading the questions.
- Ten activities are given. Write any eight.
- Each activity carries 5 scores.

#### Activity - I

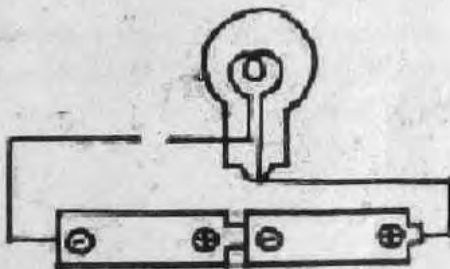
- (a) Select the suitable materials from the following and draw the electrical circuit for a fan to work



- (b) Name the device used to make a circuit function, only when needed.

#### Activity - II

- a) Observe the circuit in the figure. Which of the following materials can be used to complete the open circuit and light the bulb?



paper, rubber band,  
steel spoon, silk, plastic wire,  
nail, blade

- b) What do we call the materials that allow electricity to pass through?
- c) What do we call the materials that do not allow electricity to pass through?

### Activity III

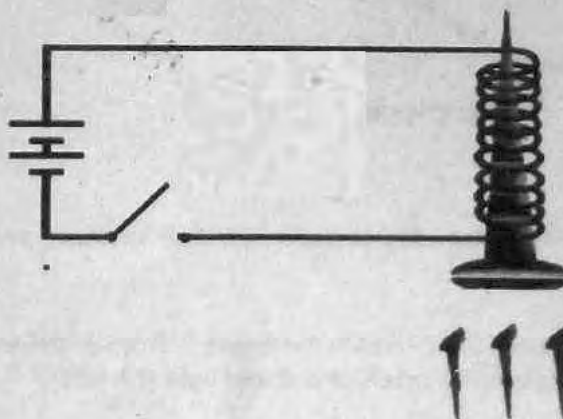
- a) Children collected 3 samples of soil to test the amount of organic content present in each. They added hydrogen peroxide into it and the results are given in the table below. Identify the sample which is suitable for farming.

Soil	Observation on adding Hydrogen peroxide
Sample 1	Less effervescence
Sample 2	More effervescence
Sample 3	No change

- b) 'Use of chemical pesticides affect soil adversely'. Do you agree with this statement? Explain.

### Activity - IV

Observe the picture

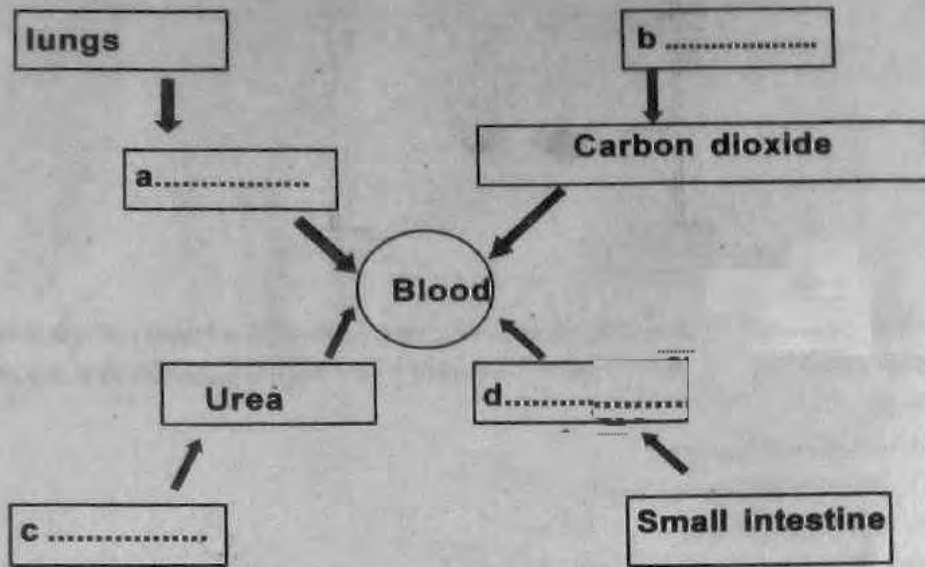


An insulated copper wire is wound closely over an iron nail from one end to the other. Both ends of the copper wire are connected to a battery. Bring some pins near the nail.

- a) What happens when the circuit is closed? Draw the diagram.
- b) Explain the reason ?
- c) What are the peculiarities of an electromagnet?

**Activity - V**

a) Analyse the illustration given below and complete it.



- b) Many components reach the blood. Which among them are required for the body?
- c) How are the unwanted substances expelled?

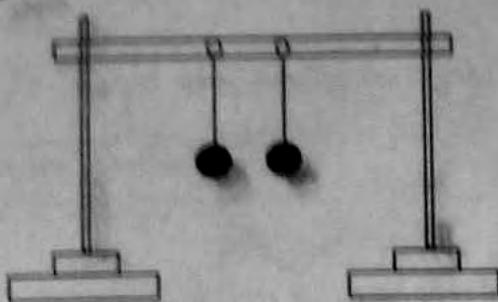
**Activity - VI**

A field trip was conducted by the seventh standard students to study the topic - "The ways in which living things depend on abiotic factors like water, air and soil". Some of their observations are given in the table below. Complete the table and write your conclusions.

Creature	Air	Soil	Water
Fishes	.....	Water bodies exist in the soil.	.....
Birds	Breathe the air from the atmosphere	.....	Drink water
Aquatic plants	.....	.....	Live in water
Human beings	.....	.....	.....
Plants	Breathe the air from the atmosphere	.....	.....

### Activity VII

Observe the figure



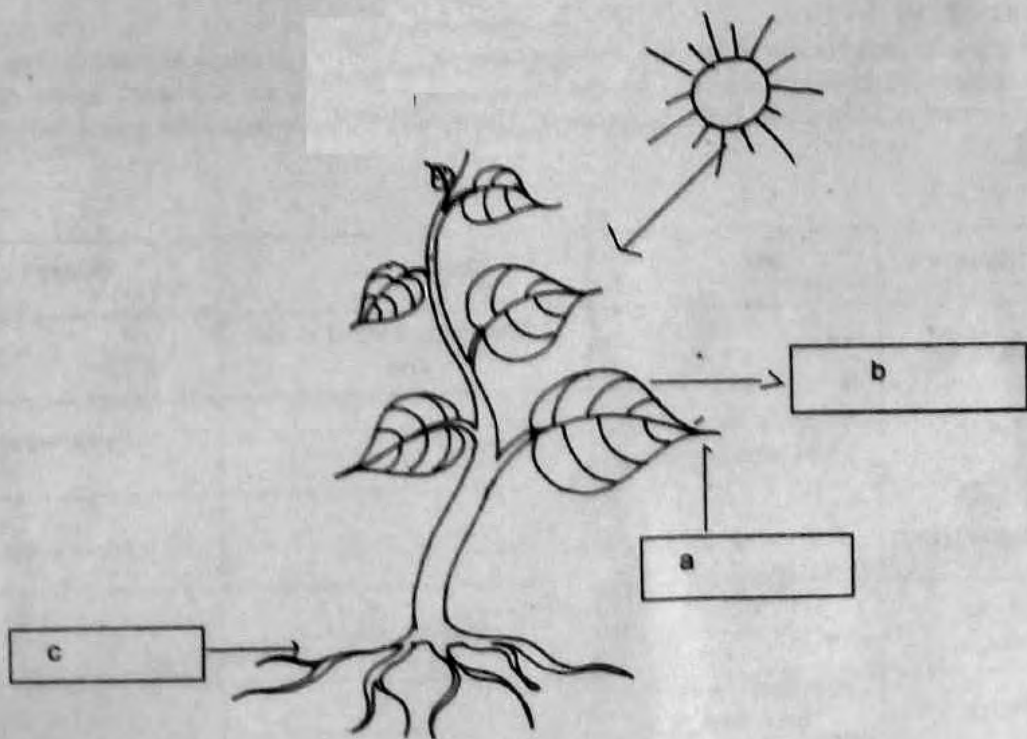
Two identical plastic balls are suspended close together on a stand using a thread. What happens when you blow air between the balls? The different guesses of three children are given below.

- 1) The balls will go apart.
- 2) The balls come close together.
- 3) No change occurs.

- a) Whose guess is correct? Explain why?
- b) Which scientist explained this principle?

### Activity - VIII

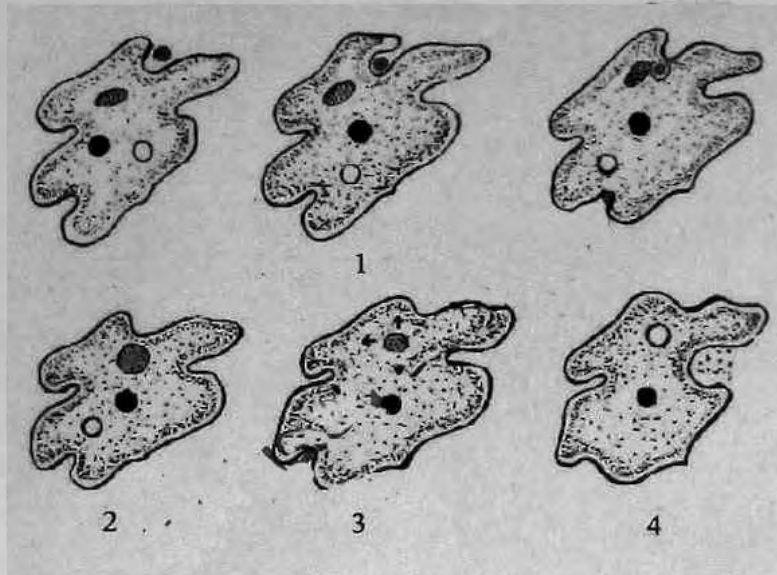
Analyse the picture given below.



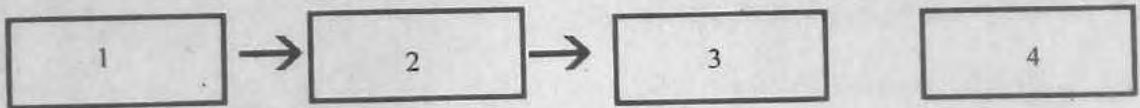
- Name a, b and c, the substances required for photosynthesis
- Photosynthesis is the most important function for the existence of organisms on Earth. Do you agree with this statement? Why? Explain.

### Activity IX

Identify the different stages (1, 2, 3, 4) in the process of nutrition in amoeba. Prepare a flow chart.



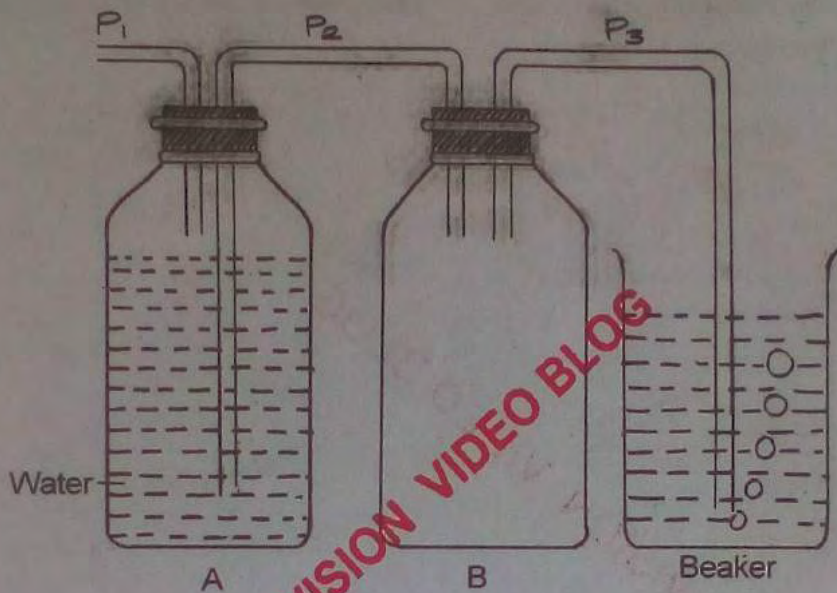
Different stages in the process of nutrition in amoeba.



- What is assimilation?

### Activity - X

Observe the figure



**Air is blown through P<sub>1</sub>**

- What change occurs in bottle A? Why?
- What happens in bottle B? Why?
- Explain why bubbles rise up in the beaker?