

Class: 5

Basic Science

Time: 2 hrs

Instructions

- ◆ 15 minutes is given as cool - off time. This time is to be used for reading the question paper.
- ◆ Attempt any 6 from the 8 activities given below.

Activity 1

Following are the planting materials collected by students in a class for preparing school vegetable garden.

Pea, Sweet potato, Snake gourd, Ash gourd, Pumpkin, Ivy gourd, Bittergourd, Cucumber

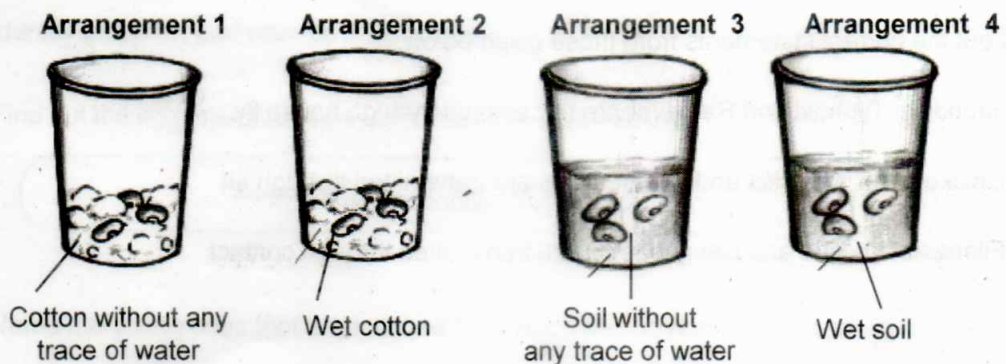
- A) Classify these plants on the basis of their growth. Write a suitable title for group (b).

(a) Creepers	(b).....
<ul style="list-style-type: none"> ● Sweet potato ● ● ● 	<ul style="list-style-type: none"> ● Pea ● ● ●

- B) Choose the correct statements from the following.
- i) Pnematophores are seen in Screw pine
 - ii) Leaf tip of Gloriosa is modified into tendrils.
 - iii) Clinging roots are seen in Pepper.
 - iv) Stilt roots support the branches of Banyan tree.

Activity 2

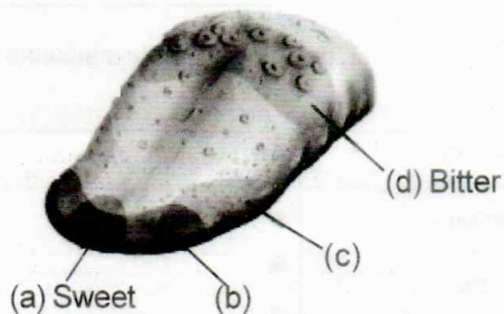
- A) Observe the different arrangements done by a child for the germination of seeds. In which arrangement is seed sprouting possible. Why?



- B) Is sunlight necessary for the germination of seed. Design an experiment to find out this.
- C) Choose the right statement from the following.
- During germination plumule comes out first.
 - During germination radicle comes out first
 - Radicle develops into stem.

Activity 3

Observe the picture of the tongue.



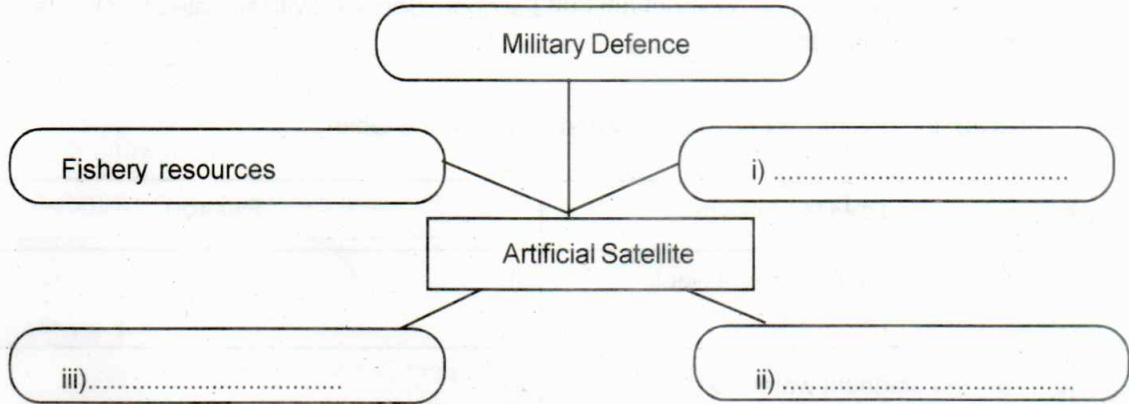
- A) Which tastes are identified through the parts marked as (b) and (c) in the picture.
- B) Write three precautions to be taken to protect the ear.

Activity 4

- A) Organic remains are decomposed by the activity of microorganisms. Write any two other uses of microorganisms.
- B) Prepare a note on the topic. "The world without microorganisms".
- C) Find out the correct statements from those given below.
- Jaundice, Typhoid and Rat fever are transmitted through house fly.
 - Chicken pox, Measles and Tuberculosis are transmitted through air.
 - Filariasis, Malaria and Dengue fever are transmitted through contact.

Activity 5

A) Look at the diagram related to the use of artificial satellite given below. Complete it.



B) Which among the following is an Indian space agency?

- | | | | |
|------|------|------|-----|
| NASA | ISRO | CNSA | ESA |
|------|------|------|-----|

C) Name the astronaut of Indian origin who secured two world records in space travel.

Activity 6

Observe the table given below.

(a) Insects	(b)
Ant	Crocodile
Grasshopper	Snake
Butterflies	House Lizard
Beetle	Mabuya
Housefly	Calotes

A) Identify group (b) and write its peculiarities?

B) Find out the egg laying animals from the group given below.

Bat, Crocodile, Guppy, Rat.

C) Name the young ones that are hatched from eggs and do not resemble their parents.

Activity 7

Do you observe 'Dry Day' at your home and school? Some activities related to 'Dry Day' are given below in the table.

- A) Find out the reasons for each activity and complete the table.

Dry Day Activities	Reason
i) Observe 'Dry Day' once in a week	i)
ii) Drain out stagnant water from coconut shells, pots, etc.	ii)
iii) People observe 'Dry Day' together on the same day	iii) The eggs of the mosquitoes at different places will be destroyed together.

- B) Write other two ways by which we can escape from mosquito bite?
C) Find out the disease transmitted through mosquito bite from below.

Conjunctivitis, Tuberculosis, Dengue fever, Cholera

Activity 8

- A) Which organism is known as the 'Rain forest of the Sea'? Write two uses of this organism.
B) Write any two activities of man which destroy biodiversity.