

**SAMAGRA SHIKSHA KERALA**  
**FIRST TERM EVALUATION 2023-24**  
**ENVIRONMENTAL SCIENCE**

Class: 4

Time: 2 hours

Name of the Student.....

Name of the School .....

Division .....

Signature of the Parent.....

Signature of the Teacher .....

Sl. No	Activities	Grade
1	On Land and In Water	
2	Root and Vein	
3	Let's Prepare a Poster	
4	Different Ecosystems	
5	Germination of Seeds	
6	Adaptation	
	<b>Overall Grade</b>	

**Instructions**

1. The first 15 minutes will be cool-off time.
2. Write answers for any five activities from Activity 1 to 6.
3. Answer all the sub-questions of the selected activities.

**Activity 1 - On Land and In Water**

The picture shows the scenes Jeevan and his friends saw while visiting a water body near the school along with their teacher.



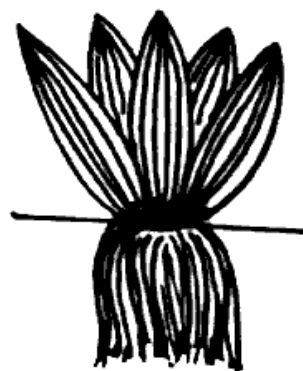
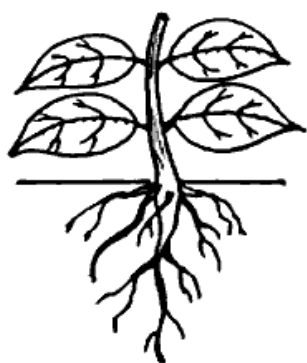
A. Classify plants and animals in your locality based on the characteristics of their dwelling place.

Living on land	Living in water	Living both on land and in water
<ul style="list-style-type: none"> <li>■ Coconut Tree</li> <li>■</li> <li>■</li> </ul>	<ul style="list-style-type: none"> <li>■</li> <li>■</li> </ul>	<ul style="list-style-type: none"> <li>■</li> <li>■</li> </ul>

B. What adaptations helps a duck to move in water and on land and catch its prey?

**Activity 2 - Root and Vein**

A) Name the root system in the picture.



**Chilly, Bamboo, Jackfruit Tree,  
Coconut Tree, Mango Tree,  
Arecanut Palm**

B) Classify the plants according to the venation of leaves and give suitable titles.


### Activity 3 - Let's Prepare a Poster

Oh! How beautiful our ecosystems are. What happens if they are destroyed?

A. Prepare a poster to convey the message "It is our responsibility to protect the ecosystem".

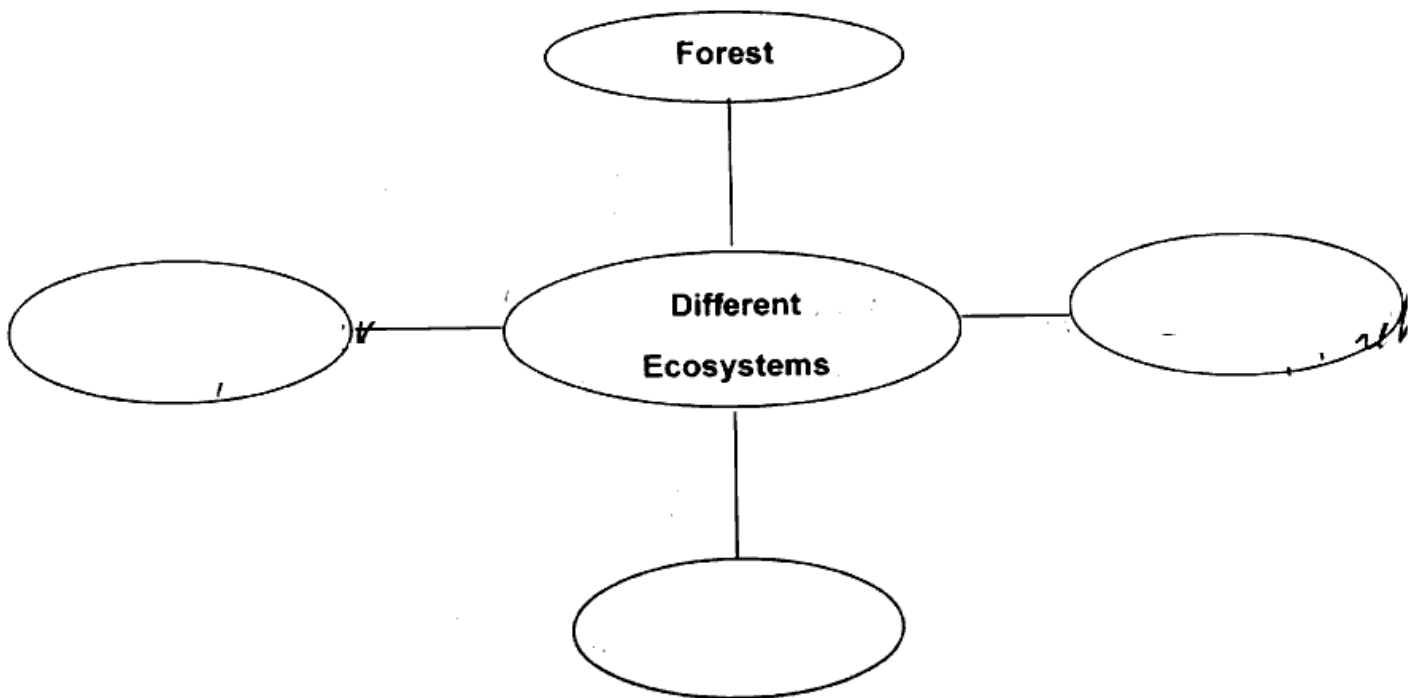
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B. Which are the various components of an ecosystem?

#### Activity 4 - Different Ecosystems

There are different ecosystems in our surroundings.

A. Complete the wordweb including various ecosystems.



B. Which activities of the human beings harm the ecosystem? Put a '✓' mark against the correct statements given below.

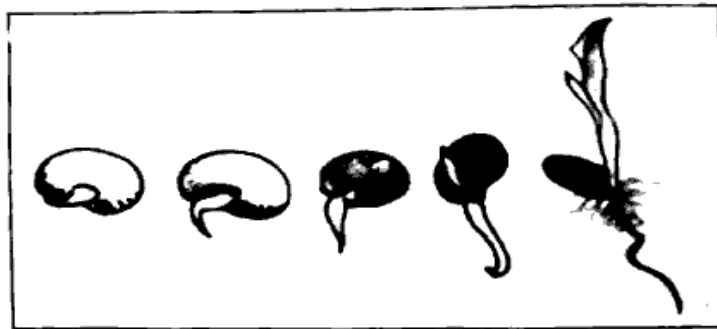
1. Excess use of pesticides
2. Planting trees in the surroundings
3. Levelling of fields and ponds
4. Protect rivers

✓
✓

### Activity 5 - Germination of Seeds

Look at the picture.

As part of the classroom activity, Johnny drew a picture that shows different stages of the germination of pea seeds .



A. Which part of a plant comes out first from a germinating seed?

The root system, venation and the number of cotyledons of plants are closely related.

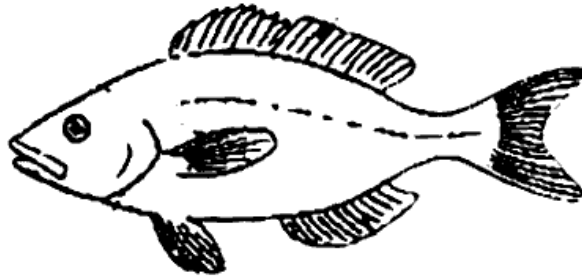
Plant	Taproot system	Fibrous root system	Reticulate Venation	Parallel Venation
Mono cotyledons		✓		✓
Dicotyledons	✓		✓	

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B. Analyse the data given in the table and write your findings.

### Activity 6 - Adaptation

- A. Observe the picture and write down the adaptations that help a fish live in water.



- B. Which organ helps a fish to breathe?