

ANNUAL TERM SAMPLE PRACTICE PAPER

Class - 5

Basic Science

Time: 2 Hours

Score : 25 Marks

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- 15 minutes is given as cool - off time. This time is to be used for reading the question paper.
- Attempt any 5 from the 7 activities given below.

Activity 1

The leaves of plants around us are arranged in different patterns. The arrangement of leaves of Hibiscus (Chemparathi), Tulsi (Thulasi), and Blackboard tree (Ezilampala) is given.



Hibiscus (Chemparathi)



Tulsi (Thulasi)



Blackboard tree (Ezilampala)

(A) Classify the given plants based on the arrangement of their leaves. Provide an appropriate heading.

(Golden Trumpet(Kolambi), Sunflower, Guava, Oleander(Arali), Mango, Leucas (Thumba)

(B) Is there a necessity for plants to have different leaf arrangements? Justify your answer.

(C) I help plants in photosynthesis. I am green in colour. My presence is the reason why plants appear green. Can you name me?

a) Anthocyanin

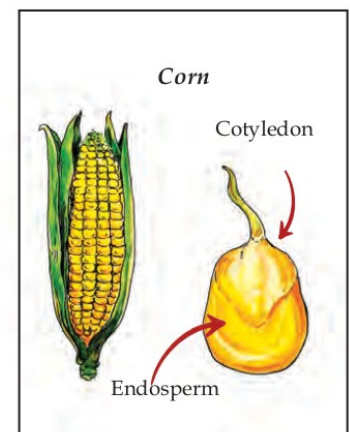
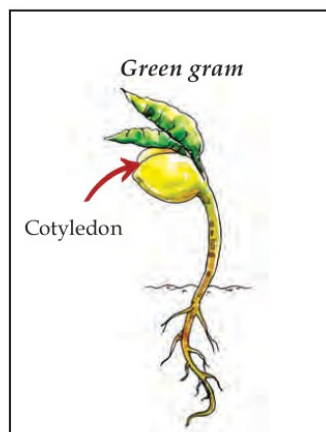
b) Xanthophyll

c) Chlorophyll

d) Carotene

Activity 2

The cotyledons of Bean (Payar) and Maize (Cholam) are given. These plants have some characteristic differences.



(A) Complete the table

Plant	Venation Pattern	Root type

(B) What is the function of the endosperm in maize?

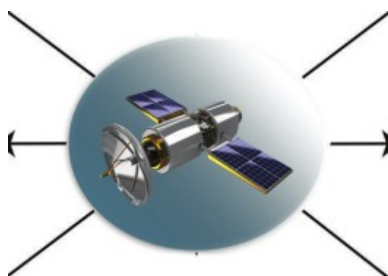
(C) Write the name of a plant that has the same number of cotyledons as the bean seed.

(D) Maize leaves have parallel venation. Identify the plant from the list that does not have parallel venation.

a) Sugarcane b) Paddy c) Chickpea d) Wheat

Activity 3

India has launched numerous artificial satellites for various purposes. INSAT and EDUSAT are some of them.



(A) Identify the main uses of India's artificial satellites and create a mind map.

(B) Write the name of the Indian system similar to GPS.

(C) The Sun is the centre of the solar system. Earth orbits the Sun, and the Moon is Earth's natural satellite. Alpha Centauri A is the closest star to the Sun. The following are different celestial bodies arranged in increasing size. Choose the correct order:

- a) Sun, Earth, Moon, Alpha Centauri A
- b) Sun, Alpha Centauri A, Moon, Earth
- c) Moon, Earth, Sun, Alpha Centauri A
- d) Alpha Centauri A, Sun, Earth, Moon

Activity 4

In households, different types of stoves are used for cooking



- What types of stoves are mentioned above?
- What factors should be considered to ensure that firewood burns well in a traditional stove?
- Design an experiment to prove that air is necessary for combustion.

Activity 5

In connection with World White Cane Day, the Science Club has decided to organize a seminar.

- Prepare a report for the seminar, including the devices used to assist visually impaired individuals.
- What is the name of the system used by visually impaired individuals for reading and writing?
- Design a poster for the school's poster-making competition to promote eye donation.

Activity 6

Animals have different organs that help them understand their surroundings. These are called sense organs.

- Which organ helps butterflies recognize taste?
 - Wings
 - Antennae
 - Legs
 - Skin
- Eyes help us see the beautiful sights of this world. What are the healthy habits we should follow to maintain good eye health?
- The ear is the sense organ that helps us hear. Hearing impairment can occur due to various reasons. What is the name of the device used to assist people with hearing loss?
- We know that food tastes better when we chew it thoroughly. Which specialized part of the tongue helps in identifying different tastes?

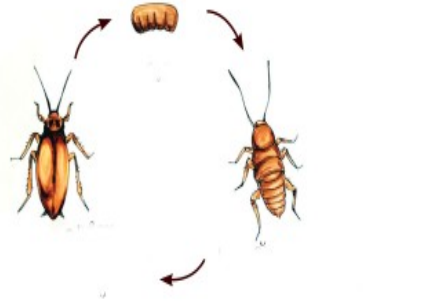
Activity 7

In the animal kingdom, insects are a diverse group of organisms. The larvae of some insects are known as worms.

(A) Manu is preparing a table of insects and their larvae in class. Can you check if there are any mistakes and help him arrange them correctly?

Insects	Larva
Butterfly	Grubs
Mosquito	Caterpillar
Beetle	കുഴിയാന
Dragonfly	Naiad

(B) Observe the diagram of the metamorphosis stages of a cockroach and answer the following questions:



- What is the name given to the young ones that hatch from cockroach eggs?
- Explain the different stages of cockroach metamorphosis.

(C) What are the benefits of worms?



Scoring Key

Class 5

Basic Science

Score 25

No	Key points		Score	Total
1	A	Classification based on Leaf Arrangement and Provide Heading	2	5
	B	Necessity of Different Leaf Arrangements	2	
	C	Name the Green Pigment	1	
2	A	Complete the Table	2	5
	B	Function of Endosperm in Maize	2	
	C	Plant with Same Cotyledon Number as Bean	1	
3	A	Uses of India's Artificial Satellites (Mind Map)	2	5
	B	Indian System Similar to GPS	1	
	C	Select the right option – Celestial Bodies in Increasing Size	2	
4	A	Write the names of Types of Stoves	1	5
	B	Factors for Efficient Burning of Firewood in Traditional Stoves	2	
	C	Experiment to Prove Air is Necessary for Combustion	2	
5	A	Seminar Report (Devices for Visually Impaired Individuals)	2	5
	B	System Used for Reading and Writing	1	
	C	Poster for Eye Donation Awareness	2	
6	A	Sense Organ for Taste in Butterflies	1	5
	B	Healthy Habits for Eye Care	2	
	C	Device for Hearing Impairment	1	
	D	Tongue Part for Identifying Tastes	1	
7	A	Corrected Table of Insects and Their Larvae	2	5
	B	Name of Young Ones of Cockroach	1	
	C	Stages of Cockroach Metamorphosis	1	
	D	Benefits of Worms – 2	1	