

SUMMATIVE ASSESSMENT - TERM I 2025 – 2026

BASIC SCIENCE

Class :5

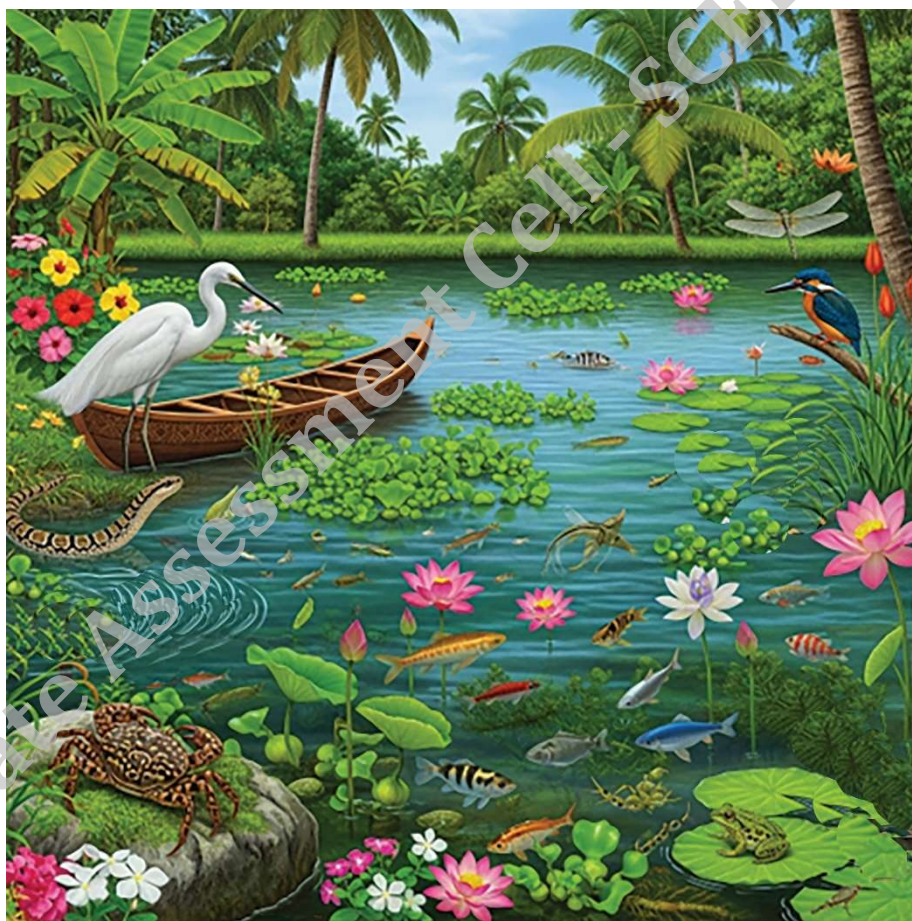
Time : 2 Hours 15 minutes

Instructions

1. **15 minutes cool off time** is allotted for reading and understanding the questions.
2. Answer all the 6 questions. Answer all the sub question in it.
3. For questions with **internal choice**, answer **either A or B**.

(1)

Observe the picture.



- a) Write any two food chains from the picture.
- b) Which organism is the first link in each of the food chains you have written? To which category do this link belongs?

- c) Observe the statements given below and find out the correct option.
- Anthocyanin is the pigment which gives yellow colour to yellow Nerium flower.
 - Xanthophyll is the pigment which gives orange colour to carrot.
 - Anthocyanin gives red colour to red rose.
 - Xanthophyll gives yellow colour to marigold.
- A. i & ii are correct
B. ii & iii are correct
C. iii & iv are correct
D. i & iv are correct

(2A)

“A Red spinach is a plant that performs photosynthesis” is the opinion of a student.

- Do you agree with this opinion? Why?
- Design an experiment to prove your opinion.
- Which of the following is the correct statement?
 - Plants take in oxygen during photosynthesis and release carbon dioxide during respiration.
 - Plants release carbon dioxide during photosynthesis and take in carbon dioxide during respiration.
 - Plants release carbon dioxide during photosynthesis and take in oxygen during respiration.
 - Plants take in carbon dioxide during photosynthesis and take in oxygen during respiration.

- A. Statement I, II are true
- B. Statement II is true
- C. Statement III, IV are true
- D. Statement IV is true

OR

(2B)

Observe the Pictures.



Picture1



Picture2



Picture3

All the plants shown in the picture grow depending on other plants.

- a) Identify and name the plants. Which among these are semi-parasite, total parasite and epiphyte?
- b) Observe the statements related to vanda.
 - I. The thick roots of the vanda help it to cling on to the tree.
 - II. The small roots of the vanda do not help it to absorb moisture from the atmosphere.
 - A. Statement I, II are true
 - B. Statement I, II are false
 - C. Statement I is true and II is false
 - D. Statement I is false and II is true
- c) Even though Loranthus has green leaves, why is it called a semi-parasite?

(3)

- a) A list of different types of diseases is given below. Classify these diseases appropriately.

Tuberculosis, Cancer, Typhoid, Leprosy
Headache, Diabetes, Toothache

- b) Write different measures to prevent the breeding of mosquitoes.
c) Examine the following statement and its reason, choose the correct answer.

Statement: Tetanus is a disease transmitted through food and water

Reason: The wounds on the body come into contact with polluted water.

- A. The statement and reason are correct
B. The statement is correct and the reason is incorrect
C. The statement is incorrect and the reason is correct
D. The statement and the reason are incorrect.

(4A)

- a) Many diseases are transmitted through soil and polluted water. What are the precautions to be taken to prevent this transmission?
b) Diseases can spread not only among humans but also among other animals and plants. Write two communicable diseases each that affect animals and plants.
c) Observe the table give below. Various diseases and their transmission ways are listed here.

Disease	Transmission ways
1. Tuberculosis.	i. Through mosquitoes
2. Leprosy	ii. Through the air
3. Dengue Fever	iii. Through the soil
4. Worm infestation	iv. Through contact with affected humans.

Which of the following is correctly arranged?

- A. 1 – i, 2 – ii, 3 – iii, 4 – iv
- B. 1 – ii, 2 – iii, 3 – iv, 4 – i
- C. 1 – iv, 2 – ii, 3 – i, 4 – iii
- D. 1 – ii, 2 – iv, 3 – i, 4 – iii

OR

(4B)

- a) In an area, two children were affected by a communicable disease. Both of them can't take medicine for the disease. But one of them got it worse. Why do you think the disease became severe in one child?
- b) Conjunctivitis is a disease transmitted through contact with an infected person. What are the precautions to prevent diseases that spread through contact.

- Avoid contact with the patient
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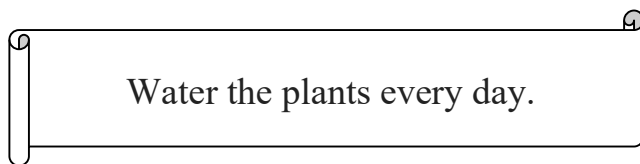
- c) Which of the following is not a good health habit?

- i. Hands are washed only after meals.
- ii. Take bath everyday
- iii. Never spit in public places.
- iv. Often eat food that has been left open

- A. i and ii
- B. ii and iii
- C. iii and iv
- D. i and iv

(5)

Given below is the board exhibited in the biodiversity park.



- a) What are the functions of water in plants?
- b) Write two instances in daily life where the property of water is used.
- c) Examine the following statement and its reason and choose the correct one.

Statement: 'Soak seeds in water' is a way to choose good seeds.

Reason: Damaged seeds float on water.

- A. Statement and reason are incorrect.
- B. Statement is correct and reason is incorrect.
- C. Statement is incorrect and reason is correct.
- D. Statement and reason are correct.

(6)

The materials brought by the students to the class for preparing various solutions are given below.

sugar, salt, vinegar, jackfruit gum, paint, soap powder,
baking soda, kerosene, water, coconut oil, potassium
permanganate

- a) Many of these are soluble, while some are solvent. Find out and write three solutions prepared by three different solvents. Prepare a table including the solute and solvent in all solutions.
- b) Write down the solute used in soda water.
- c) Which of the following situations make use of the solvent property of water?

- i. Removing ball point pen ink with kerosene
- ii. Washing clothes.
- iii. Making soft drinks.
- iv. Cooking rice by boiling

- A. ii and iii are correct
- B. iii only correct
- C. ii and iv are correct.
- D. i and iv are correct.

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