



DEPARTMENT OF  
**EDUCATION**

**SEKHUKHUNE SOUTH DISTRICT**  
**GENERAL EDUCATION AND TRAINING**

**NATURAL SCIENCES AND TECHNOLOGY**

**GRADE 6**

**TERM 1 TEST 2023**

**Name of School:** \_\_\_\_\_

**Name of Learner:** \_\_\_\_\_

**MARKS ALLOCATION: 40 MARKS**

**DURATION : 60 MINUTES**

|                       |          |          |           |          |          |          |              |
|-----------------------|----------|----------|-----------|----------|----------|----------|--------------|
| <b>Questions</b>      | <b>1</b> | <b>2</b> | <b>3</b>  | <b>4</b> | <b>5</b> | <b>6</b> | <b>Total</b> |
| <b>Marks</b>          | <b>3</b> | <b>3</b> | <b>10</b> | <b>6</b> | <b>8</b> | <b>5</b> | <b>40</b>    |
| <b>Learners marks</b> |          |          |           |          |          |          |              |

**Knowledge Strand: Life and living**

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**Instructions:**

1. This question paper consists of 7 pages including the cover page,
  2. Answer all the questions.
  3. Write your answer on the answer sheet provided.
  4. Use a pen to complete your paper.
  5. Write neatly and legibly
  6. Good luck.
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### **QUESTION 1 MULTIPLE CHOICE**

Read each question and circle the letter that shows the correct answer.

1.1 Which one of these is NOT one of the four food groups?

- a. Protein
  - b. Carbohydrates
  - c. Fats and oil
  - d. Fruit and vegetables
- (1)

1.2 The process of photosynthesis in the plant mainly takes place in the...

- a. Leaves
  - b. Roots
  - c. Hand
  - d. Stem
- (1)

1.3 Which one of these statements is FALSE?

- a. Carnivores are animals that eat meat only.
  - b. Producers eat other plants.
  - c. Herbivores are animals that eat plants.
  - d. Consumers are animals that eat plants or other animals.
- (1)

[3]

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### **QUESTION 2 MATCH THE COLUMNS**

Match the sentences in COLUMN A with the words in COLUMN B

| COLUMN A            | COLUMN B   | ANSWERS    |
|---------------------|--|------------|
| 2.1. Diet           | A. The process by which plants make their own food.            | 2.1____(1) |
| 2.2 Ponds           | B. The selection of food a person or an animal eats every day. | 2.2____(1) |
| 2.3. Photosynthesis | C. Small fresh water ecosystem.                                | 2.3____(1) |

[3]

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### QUESTION 3

Thembi is a ten year old girl. She made a list of her diet for one day.

Study the list of food Thembi ate in one day. Use the information to answer the questions that follow.

|  |  |
|--|--|
| <b>Breakfast:</b><br>1 cup cereal<br>Half a cup of milk<br><br><b>Lunch:</b><br>Two slices bread<br>Two table spoons margarine<br>Half a cup beans<br>One banana | <b>Afternoon:</b><br>Snack One apple<br>One bread roll<br>One large slice cheese<br>20 peanuts<br><br><b>Supper:</b><br>One cup rice<br>Four fish fingers baked in<br>two tablespoons of oil<br>Half a cup pumpkin<br>Half a cup cabbage<br>Small glass of grape Juice |
|--|--|

3.1 Complete the table below by giving one example of each food group that Thembi ate.

| Food Group            | Example |
|-----------------------|---------|
| Carbohydrates         | a)      |
| Protein               | b)      |
| Fats and Oils         | c)      |
| Vitamins and minerals | d)      |

(4)

3.2 Thembi is growing two centimeters in a month. What type of food (solid and liquids) should she be eating more?

\_\_\_\_\_ (1)

3.3 Refer to Thembi's diet and use your knowledge of a food pyramid to answer the following questions:

(a) Is Thembi following a balanced diet for the one day?

\_\_\_\_\_  
\_\_\_\_\_ (1)

(b) Give a reason for your answer in Question 3.3 (a)

\_\_\_\_\_  
\_\_\_\_\_ (2)

(c) Name one food that Thembi should eat more often.

\_\_\_\_\_ (1)

(d) How many servings of meat did Thembi have during the day?

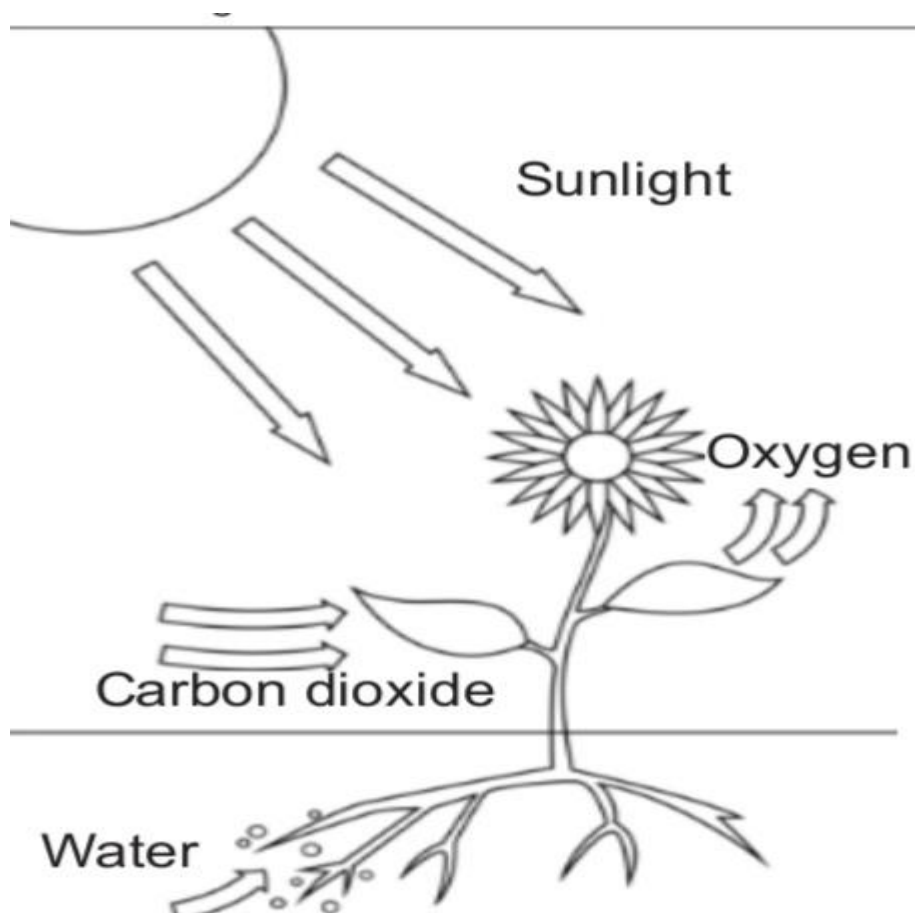
\_\_\_\_\_ (1)

[10

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#### QUESTION 4

4.1 There are **five** important requirements for photosynthesis.



Identify any **THREE** of those important things that need to be there in order for photosynthesis to take place.

4.1.1 \_\_\_\_\_

(1)

4.1.2. \_\_\_\_\_ (1)

4.1.3. \_\_\_\_\_ (1)

4.1 Name gas taken in by plants during photosynthesis  
\_\_\_\_\_ (1)

4.2 Name gas given out by plants as a product of  
photosynthesis. \_\_\_\_\_ (1)

4.3 Which part of the plant is photosynthesis taking place. \_\_\_\_\_ (1)

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**QUESTION 5:**

Read about Thandi's vegetables garden.

Thandi grows maize, spinach and pumpkin in her vegetable garden. In Summer the vegetables grow fast in warm sun. Thandi waters the garden every day.

Thandi and her family have already started eating the spinach and the mealies will be ready soon.

But Thandi's family are not the only ones that like the vegetables. Sometimes snails eat the spinach leaves and beetles make holes in the maize stalk. Birds like Hededas fly into the garden and eat the snails and beetles.

5.1 Name the producer in Thandi's garden. \_\_\_\_\_ (1)

5.2 Name the Herbivore in Thandi's garden. \_\_\_\_\_ (1)

5.3 Name the carnivore in Thandi's garden. \_\_\_\_\_ (1)

5.4 How do the living things need each other in Thandi's Garden?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (1)

5.5 Write two sentences to explain how living things need non-living things in Thandi's garden.

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(2)

5.6 Explain why Thandi's vegetable garden is an ecosystem.

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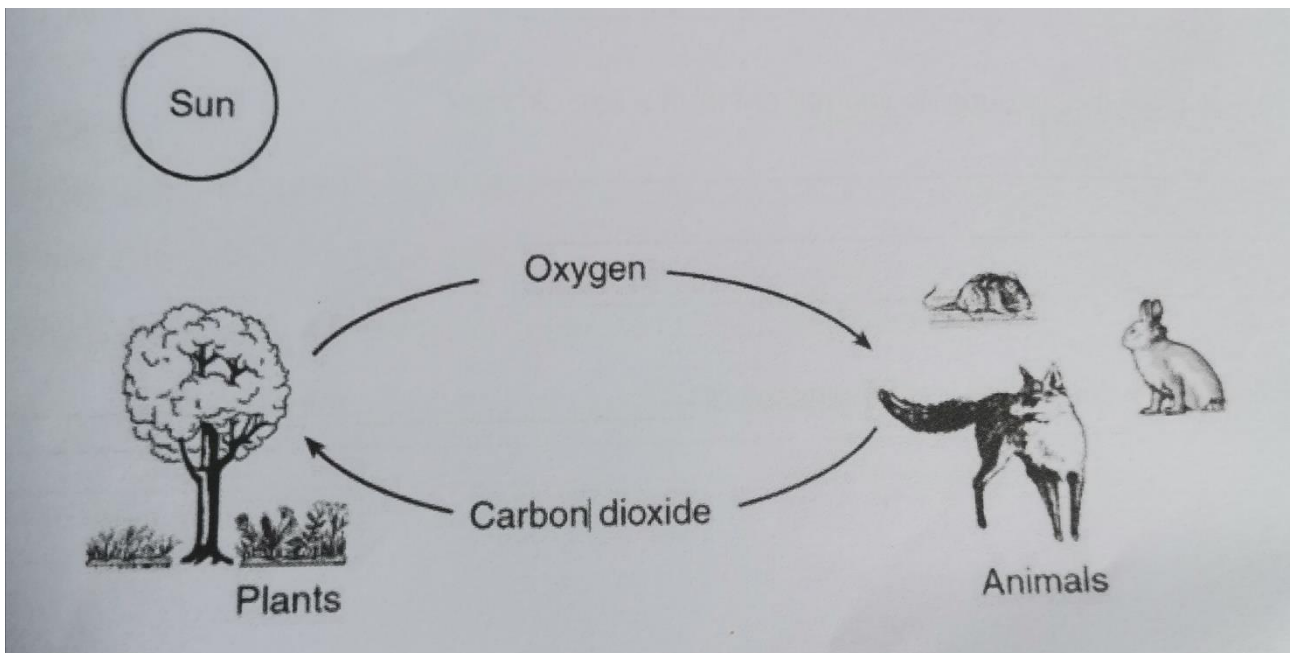
(2)

5.7. Draw a food web for the vegetable garden that includes Thandi.

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### QUESTION 6

6.1 The diagram below shows the oxygen- carbon dioxide cycle.



Animals, plants, carbon dioxide, oxygen, breath, photosynthesis, cycle, absorb, releases

Using the diagram and the words above, write 5 sentences to explain the relationship between plants and air.

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