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Part A: Multiple Choice Questions

[5 marks]

Circle the correct answer.

1. Which part of the plant is responsible for carrying water from the roots to the rest of the plant? (1 mark)

A. Leaf

B. Stem

C. Flower

D. Seed

2. What is the green substance in leaves that helps them appear green? (1 mark)

A. Chlorophyll

B. Stomata

C. Lamina

D. Midrib

3. Which of these plants typically has a taproot? (1 mark)

A. Grass

B. Wheat

C. Bean

D. Paddy

4. What do plants use to take in air from the surroundings? (1 mark)

A. Midrib

B. Lamina

C. Stomata

D. Bark

5. Where is the baby plant found? (1 mark)

A. Inside the fruit

B. Inside the seed

C. Inside the flower

D. Inside the stem

Part B: Matching

[6 marks]

Draw a line from each item in Column A to the correct item in Column B.

1. Match the plant part with its function or description.

(6 marks)

Column A		Column B
1. Roots		a. Carries water and food
2. Stem		b. Food factories of the plant
3. Leaves		c. Tiny pores for air
4. Stomata		d. Has one main root
5. Taproot		e. Many separate roots
6. Fibrous root		f. Hold plant firmly in soil

Part C: Long Answer

[20 marks]

Answer the following questions in the space provided.

1. Explain why leaves are called the 'food factories' of the plant.

(5 marks)

2. Describe the difference between a taproot and a fibrous root.

(5 marks)

3. What would happen to a plant if its stem were severely damaged? Explain why. (5 marks)

4. Describe the process of how a new plant is formed from a flower.

(5 marks)

ANSWER KEY

Science · Parts of a Plant · Grade 3 — For teacher / parent use only

Part A: Multiple Choice Questions

- | | |
|-----------------------|-------------------|
| 1. B. Stem | 2. A. Chlorophyll |
| 3. C. Bean | 4. C. Stomata |
| 5. B. Inside the seed | |

Part B: Matching

1. Match the plant part with its function or description.

- | | |
|-----------------|--------------------------------------|
| 1. Roots | → <i>Hold plant firmly in soil</i> |
| 2. Stem | → <i>Carries water and food</i> |
| 3. Leaves | → <i>Food factories of the plant</i> |
| 4. Stomata | → <i>Tiny pores for air</i> |
| 5. Taproot | → <i>Has one main root</i> |
| 6. Fibrous root | → <i>Many separate roots</i> |

Part C: Long Answer

1. Explain why leaves are called the 'food factories' of the plant.

Model answer: Leaves are called food factories because they make food for the plant. They use sunlight, air (which enters through stomata), and water (taken in by roots) to prepare this food.

Award marks for: Must mention that leaves make food, and include the three ingredients: sunlight, air, and water.

2. Describe the difference between a taproot and a fibrous root.

Model answer: A taproot has one main root with many smaller fine roots attached to it, like in bean plants. A fibrous root has no main root but consists of many separate roots, like in grass.

Award marks for: Must describe the structure of both root types and provide one example for each.

3. What would happen to a plant if its stem were severely damaged? Explain why.

Model answer: If the stem is damaged, the plant cannot live. This is because the stem contains a network of fine tubes that carry water from the roots to the rest of the plant and food from the leaves to other parts.

Award marks for: Must state the plant will die and explain the stem's role in transporting water and food via internal tubes.

4. Describe the process of how a new plant is formed from a flower.

Model answer: A flower bud grows into a flower. The flower then develops into a fruit that contains seeds. When a seed falls on the soil and gets water, the baby plant inside the seed grows into a new plant.

Award marks for: Must mention the sequence: bud to flower, flower to fruit/seed, and seed to new plant.