

**JSS PRIVATE SCHOOL**  
**Grade 7 Science**  
**Chapter 1: Nutrition in Plants**

Name of Student: \_\_\_\_\_ Grade/Section: \_\_\_\_\_ Date: \_\_\_\_\_

**Q1. Multiple Choice Questions (2 × 1 = 2 marks)**

a. Which part of a leaf contains chlorophyll needed for photosynthesis?

- A. Veins
- B. Stomata
- C. Chloroplast
- D. Root hair

b. A plant that derives nutrition from dead and decaying matter is called:

- A. Autotroph
- B. Parasite
- C. Saprotroph
- D. Insectivorous plant

**Q2. Assertion–Reason (1 mark)**

**Assertion (A):** Plants are called producers.

**Reason (R):** Plants prepare their own food using carbon dioxide, water, chlorophyll, and sunlight.

Choose the correct option:

- A. Both A and R are true, and R is the correct explanation of A.
- B. Both A and R are true, but R is not the correct explanation of A.
- C. A is true, but R is false.
- D. A is false, but R is true.

**Q3. Short Answer Questions (2 × 2 = 4 marks)**

a. Why are leaves called the food factories of plants? Name any two raw materials required for making food. (2 marks)

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b. How do fungi obtain food? Why are they called saprotrophs? Give one example. (2 marks)

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**Q4. Long Answer Question (3 marks)**

**a.** A farmer grows pea plants in one field and wheat plants in another. Which field would need more nitrogen fertilizer? Give reason.

*(1 mark)*

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**b.** Differentiate between **parasitic nutrition** and **insectivorous nutrition**. Give **one example of each**.

*(2 marks)*

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**Q1. MCQ**

- a. **C. Chloroplast** — 1 mark
- b. **C. Saprotroph** — 1 mark

**Q2. Assertion–Reason**

**Correct option: A** — 1 mark

**Q3. Short Answer**

a.

- Leaves are called food factories because **photosynthesis takes place in leaves** — 1 mark
- Any two raw materials: **carbon dioxide, water** — 1 mark

b.

- Fungi obtain food from **dead and decaying matter** — 1 mark
- They are called **saprotrophs** because they absorb nutrients from decaying matter; example: **mushroom** — 1 mark

**Q4. Long Answer**

a.

- **Wheat field** would need more nitrogen fertilizer — 1 mark
- Reason: **Pea plants have nitrogen-fixing bacteria in root nodules.**

b.

- **Parasitic nutrition:** organism obtains food from a living host. Example: **Cuscuta** — 1 mark
  - **Insectivorous nutrition:** plant traps insects to obtain nutrients, especially nitrogen. Example: **Pitcher plant** — 1 mark
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