**D. Differentiate between:**

a. Non flowering plants and Flowering Plants

|  |  |
| --- | --- |
| **Non flowering plants** | **Flowering plants** |
| They reproduce through flower. | They reproduce without flowers. |
| Fruits are formed after fertilization | Fruits are not formed. |
| Example: Mango, Rose, Wheat, Sunflower Etc**.** | Examples: Ferns, Mosses, Pine,Etc**.** |

**2. Monocot and dicot plants.**

|  |  |
| --- | --- |
| Monocot plants | Dicot plants |
| They have 1 cotyledon in seed | They have 2 cotyledon  in seed. |
| They have fibrous root. | They have tap root. |
| Examples Rice, Wheat, Maize, Grass | Examples Mango, Pea, Rose, Sunflower |

3. Autotrophs and Heterotrophs

|  |  |
| --- | --- |
| Autotrophs | Heterotrophs |
| They make their own food. | Depend on other organisms for food |
| They are called producers. | They are called d consumer. |
| For e.g: plant | For e.g: human,animals |

**3. Algae and fungi**

|  |  |
| --- | --- |
| **Algae** | **Fungi** |
| They make their own food | They depend on others for food. |
| It contains chlorophyll. | It lacks chlorophyll |
| It is found in aquatic or moist places. | It is found in moist and dark places. |

**E. Give reason.**

1. Algae are Autotrophic plants.

-because they make their own food .

2. Fungi are heterotrophic plants.

-because they depend on other for their food.

3. Maize belongs to monocot.

-because they contain only one cotyledons seed and have fibrous root.

4. Beans belongs to dicot.

-because they contain two cotyledons seed and have tap root.

**F. Very short answer type questions.**

1. Give two examples of:

1. Non-flowering plants (Cryptogams):

Examples: Fern, Moss

1. Flowering plants (Phanerogams):

Examples: Mango, Rose

1. Algae:

Examples: Spirogyra, Chlamydomonas

1. Fungi:

Examples: Mushroom, Yeast

1. Autotrophs:

Examples: Sunflower, Tomato

1. Heterotrophs:

Examples: mushroom and yeast

1. Monocotyledons

Examples: Maize, Rice

**G. Short answer type questions.**

1. How does monocot plant different from dicot plant?

- Monocot plant are different from dicot plant different by Monocot has one cotyledon, parallel venation, fibrous root, while dicot has two cotyledons, reticulate venation, tap root

2. What are dicotyledons plants?

- Plants with two cotyledons in their seed called dicotyledons plants.

3. What are autotrophic plants?

- Autotrophic plants are plants that prepare their own food by photosynthesis.

4. What are heterotrophs?

- Heterotrophs are organisms that depend on others for food.

**H.Long Answer type questions.**

**1. Observe the given diagram of a plant .**

a. Does the plant belongs to cryptogram?

- No, it is not a cryptogam.

b. Is the plant heterotrophs?

-No, it is autotrophic, not heterotrophic.

c. Based on the root system and leaves, give your opinion that plant belongs to monocot or dicot.

-Tomato is a dicot plant which have tap root and reticulate venation leaf.