

Lesson : 4 Getting to Know Plants

A. Fill in the blanks:

1. The design made by veins in a leaf is called _____.
2. _____ solution is used to test the presence of starch.
3. Stamens consist of _____ and anther.
4. The innermost part of a flower is called _____.
5. Plants with weak stem that spread on the ground are called _____.
6. The process of loss of water by a plant through leaves is called _____.
7. The bead like structure inside the ovary is _____.
8. _____ conduct water to the leaves and other parts of the plant.
9. Plants are anchored to the soil by the _____.
10. The part of the leaf which helps it to attach to the stem is _____.
11. A plant which takes the support of the neighboring structure and climb up is called _____.

B. Choose the correct option:

1. The flat green part of the leaf is
a) petiole b) lamina c) midrib d) vein
2. The innermost part of the flower is
a) stamen b) pistil c) sepal d) petal
3. _____ absorb water and minerals from the soil.
a) stem b) leaves c) roots d) flowers
4. _____ are small leaf like structure in the flower.
a) sepal b) pistil c) stamen d) petal
5. Which of the following plant leaf has reticulate venation
a) wheat b) grass c) hibiscus d) maize
6. Plants having leaves with parallel venation have _____ roots.
a) tap b) fibrous c) lateral d) none

C. Assertion and Reason questions. Choose the correct option:

1. Assertion (A): plants are usually grouped into herbs, shrubs and trees

Reason (R): The plants are classified on the basis of their height, nature of stem and branches

- 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.

2. Assertion (A): The parts of flowers are sepals, petals, stamens and pistil.

Reason (R): The stem bears petiole and lamina

- 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.

D. Answer the following questions:

1. What is leaf venation ? Explain the types of venation.
2. Define: a) Herbs b) Climbers c) Shrubs
3. Draw a well labelled diagram of flower.

Lesson : 10 Fun with Magnets

Fill in the blanks:

1. _____ is a natural magnet.
2. When the south pole of a magnet is brought near the north pole of another magnet _____ occurs.
3. Freely suspended bar magnet always aligns in _____ direction.
4. An object that attracts materials like iron and nickel is called _____.
5. Like poles _____ each other.
6. A bar magnet has _____ poles.
7. _____ is an example non-magnetic material.
8. Material that are not attracted by the magnet are called _____ materials.

B. Choose the correct option:

1. The materials that gets attracted towards a magnet are called
 - a) non-magnetic b) translucent c) transparent d) magnetic
2. Maximum iron fillings stick in the _____ of a bar magnet when it is brought near them.
 - a) poles b) middle c) neither poles nor middle d) all around equally
3. The statue of a lady on the chariot of the emperor Hoang Ti, rests in such a position that its extended arm always point towards _____ direction.
 - a) East b) South c) North d) West

4. Which of the following is not a non-magnetic substance?

- a) rubber b) wood c) glass d) iron

5. Unlike poles of the magnets _____ each other.

- a) attract b) repel c) both a and b d) none

C. Assertion and Reason questions. Choose the correct option:

1. Assertion : Magnetic poles exist in pairs.

Reason : If a magnet is cut into pieces , each piece will have a North and a South pole.

- 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.

2. Assertion : Opposite poles of two magnets attract each other whereas similar poles repel one another.

Reason : A freely suspended magnet always aligns in N-S direction.

- 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.

D. Answer the following questions:

1. How will you make a magnetic compass? Explain.
 2. Write any two uses of magnet.
 3. Can a magnet be demagnetized? How?
 4. To which part of the magnet do the most of the iron fillings stick?
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