## PHYSICS

1) Acids turn blue litmus paper Red white bases turn red litmus paper blue.

2) The solution or substances which do not change the colour of either red or blue litmus paper are neutral.

3)

Turmeric

China rose

4)

- Citric acid in lemon juice
- Oxalic acid in tomato.

5) Turmeric stain on white shirt is turned red when it is washed with soap because the soap solution is basic in nature.

6) The acid is formic acid which is injected into the skin of a person when an ant bites.

7)

- Baking soda
- soap or detergent

8) Carbonic acid

9)

a. TURMERIC
b. SOLUTION
c. BAKING SODA

I.

1. Water
2. Root
3. Petals
4. Ovary
5. Radicle

II.

Write about following

| Column A | column B |
|---|---|
| 1. Creepers | plants with weak stem that cannot stand upright and spread on the ground. |
| 2. Shrubs | plants which have branches at the base. |
| 3. Herbs | plants with green and tender stem. |
| 4. Trees plants | which are very tall and have and thick brown stem. |

III.

1.
**Climber**   plants with weak stems that take support on other structures and climb up.
**Creeper**   plants with weak stem that cannot stand upright and spreads on the ground.

2. Weed is unwanted plants that grow along with the crops and compete with normal healthy plants for water, light, soil, nutrients.

3. **Diagram leaf and its parts**
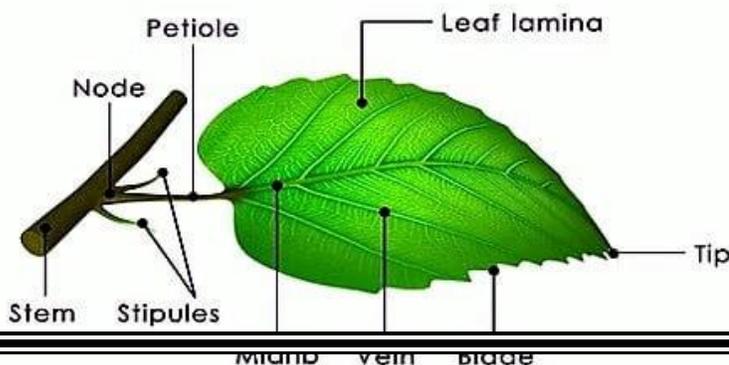
4. Pollination : It is transferring of pollen grains from anther to stigma

IV.

| **1. Reticulate venation** | **Parallel venation** |
|---|---|
| 1. Presence of interconnected veins | 1. Presence of parallel veins |
| 2. Occurs in dicots | 2.Occurs in in monocots |
| 3. Example: coriander, rose, tulsi | 3.Examples: coconut, banana, maize. |

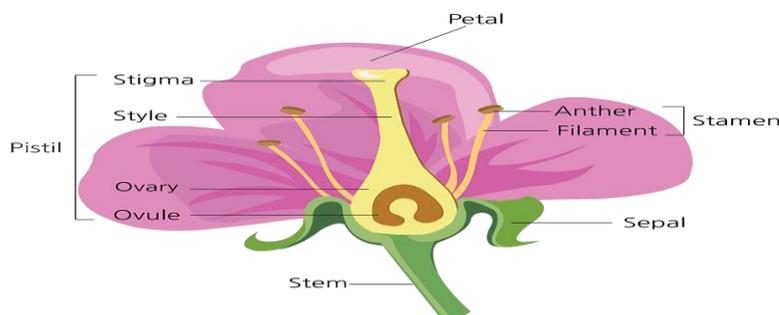| **2.        Herbs** | **Shrubs** |
|---|---|
| 1. Plants with green and tender stems are called herbs | 1.Plants with many stem branching out near the base |
| 2. Non bushy plants | 2. Shrubs are bushy plants |
| 3. Example:coriander | 3.Example: rose |

**3.**

**Tap root system**

There is one main root cell tap from which smaller roots spreads laterally called lateral roots

Example beetroot

**4.Draw and label parts of a flower**

## PHYSICS

1. Basic unit of speed - m/s

2. Sundial, sand clock

3. Odometer      distance

Speedometer      speed of a vehicle

4. There are 5 types of motion

Translatory motion    vehicle moving on a road

Rotatory motion     Giant wheel

Circular motion      A stone tied to a string

Oscillatory motion      pendulum clock

Random motion    Flying of a honey bee

5.   54 km/ hour to m/s

$54 \times 5/18 = 3 \times 5 = 15$ m/s

6.

   a. Oscillation
   b. Bob
   c. Nanosecond

7.

   a. Sun dial
   b. Time period
   c. Rest

8.

 a) PENDULUM

b) UNIFORM

c) PERIODIC

d) DISTANCE

9. The most common thing in all clocks is all shows the periodic motion.

10. Based upon the speed of objects in equal interval of time.

11.we can decide time of the day without clock by seeing  shadow formed by the sun, eg: working of sundial.

12. In a day we have 24 hrs.

> 1 hr=60min
>
> 1 min=60sec.
>
> So,1 hr=24×3600=86400 sec

13. 360×5/18=20×5=100m/sec

14.    Line graph

> Pie chart
>
> Bar graph

15.

**uniform motion:** Body or an object covers equal distance in equal interval of time

**Non uniform motion:**

Body or an object covers unequal distance in equal interval of time.