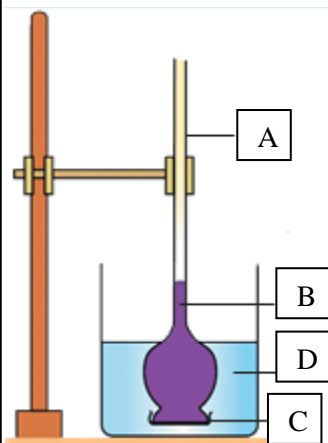




- 9) The group of plants that shows the guttation is
- I) Acacia, Potato, Temple tree
  - II) Anthurium, Tomato, Acacia
  - III) Cactus, Temple tree, Potato
  - IV) Aloe, Oleander, Pumpkin
- 10) Factor/s affect for rate of transpiration is/are
- I) Heat
  - II) Strong wind
  - III) Strong light
  - IV) All above

### Part II

- 1) Following setup is used to investigate one of the transpirations in the laboratory

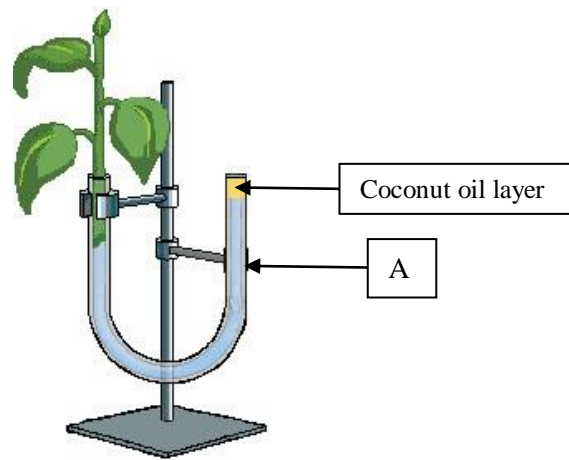


- i) Name A, B and C
  - ii) Write one observation after few minutes
  - iii) Which type of membranes that egg membranes act as?
  - iv) Name another type of membrane that can be used in the above set up
  - v) Why do we mix condoms with salt solution in this experiment?
  - vi) Write the conclusion of this activity
- 2) Photosynthesis is a biological process carried out by the plants
- i) Name another two biological processes that is carried out by the plants.
  - ii) Fill in the blanks in the following word equation of photosynthesis



- iii) Draw a diagram of an activity that can be done to identify the byproduct of photosynthesis
- iv) Write 3 uses of photosynthesis

- 3) The following activity can be done to show that plants absorb water to fill the gap of water due to transpiration.



- i) Name 'A' in the above setup
  - ii) What is the reason of putting a coconut oil layer?
  - iii) Write 2 functions of transpiration
  - iv) Write down an observation of this activity
  - v) If you need to identify the effect of strong light for the photosynthesis, design an activity for it
  - vi) What do you mean by transpiration?
- 4)
- i) Define the following terms
    - a. Diffusion
    - b. Osmosis
    - c. Guttation
  - ii) Write 2 instances where diffusion takes place.
  - iii) Write an instance where osmosis takes place in plants.
  - iv) Name the semi – permeable membrane in a plant cell.
  - v) Name the plant issue that transport water through the plant.