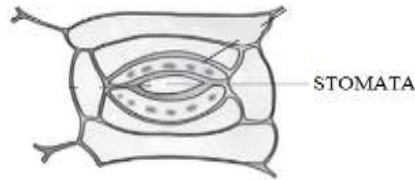


1. Identify the function of the labelled part in the plant life.

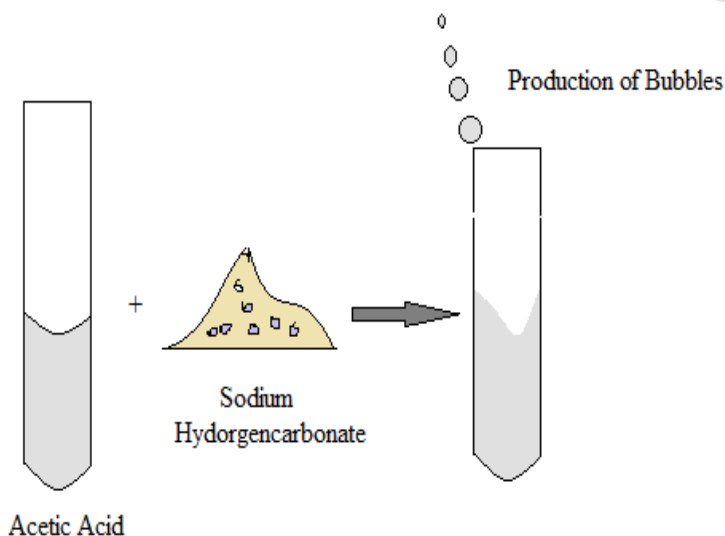


Change stomata (Plural) into stoma (Singlr)

- a. Take up Water from soil
  - b. Takes in Carbon-dioxide from atmosphere
  - c. Appearance of Green color of plant.
  - d. Absorbing sunlight.
2. The fourth and final stomach compartment in ruminants is termed as:
- a. Abomasum
  - b. Rumen
  - c. Omasum
  - d. None of these
3. Which of the following mixture of fibers gives polycot?
- a. Nylon and wool
  - b. Nylon and cotton
  - c. Terylene and cotton
  - d. Polyester and cotton
4. Range of maximum-minimum thermometer?
- a.  $-38^{\circ}$  to  $130^{\circ}$  F and  $-40^{\circ}$  to  $120^{\circ}$  F.
  - b.  $-10^{\circ}$  to  $110^{\circ}$  F and  $-20^{\circ}$  to  $150^{\circ}$  F.
  - c.  $-50^{\circ}$  to  $100^{\circ}$  F and  $-30^{\circ}$  to  $120^{\circ}$  F.
  - d.  $-40^{\circ}$  to  $90^{\circ}$  F and  $-20^{\circ}$  to  $130^{\circ}$  F.
5. What happens when a red litmus paper dipped into a paste of spinach?

- a. Red litmus paper remains red
- b. Red litmus paper turns blue
- c. Red litmus paper turns green
- d. Red litmus paper turns blue black

6. A student performed an activity with following substances. Look at the figure below and identify the reason for production of bubbles.



- a. Production of Hydrogen
- b. Production of Carbon dioxide
- c. Production of oxygen
- d. Presence of Acetic acid.

7. The temperature at location X is approximately above  $15^{\circ}\text{C}$  during winter and above  $40^{\circ}\text{C}$  during summer. Identify location X.

- a. The tropical rainforests
- b. The Polar Regions
- c. Desert
- d. Plain Land

8. A bottle was first filled with some hot water and then emptied. The bottle was immediately capped and brought under normal water. The bottle got compressed. Why?

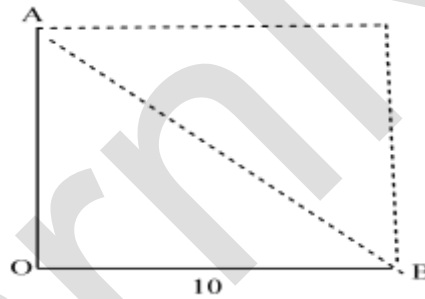
- a. Decrease of pressure outside the bottle
  - b. Decrease of pressure inside the bottle
  - c. Increase of pressure outside the bottle
  - d. Increase of pressure inside the bottle
9. The layer of soil which is generally soft, porous and can retain more water is called:
- a. B horizon
  - b. A horizon
  - c. C horizon
  - d. Bedrock
10. A student took 100 mL water in a beaker and starts to pour drop by drop in a filter funnel filled with 50g soil. He continued this activity until the water started dripping through the funnel. . If the amount of water left in the beaker is 56 mL, calculate the percentage of water absorbed?
- a. 50%
  - b. 88%
  - c. 56%
  - d. 100%
11. After rigorous exercise a student suffered from severe muscle cramp. It was due to:
- a. Due to production of carbon-dioxide.
  - b. Due to production oxygen.
  - c. Accumulation of lactic acid.
  - d. All of these.
12. The tissue responsible for transportation of food throughout the plant is:
- a. Xylem
  - b. Phloem
  - c. epithelial
  - d. connective
13. Some organisms like yeast grows by protruding out from the parent cell and gets detached into a new individual. What is this process known as?
- a. Binary fission

- b. Budding
- c. Assimilation
- d. Metamorphosis

14. Aquatic animals excrete their wastes in the form of:

- a. Uric Acid
- b. Urea
- c. Ammonia
- d. Nitrogen

15. Ruhan was cycling across a square field. He reached point B from A by passing through point O. What is his displacement?

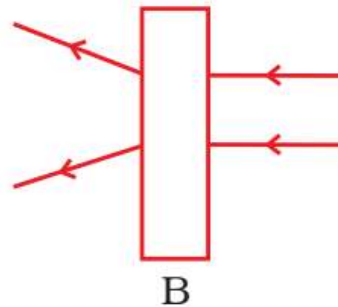
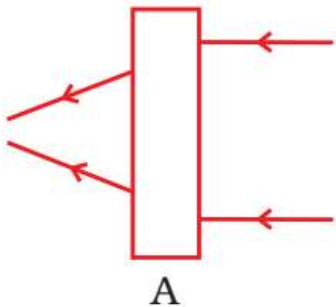


- a. 20
- b. 10
- c.  $10\sqrt{2}$
- d.  $20\sqrt{2}$

16. Shalu decided to buy fuse of same rating for geyser, fridge and TV. But the electrician asked her to buy different rated fuse for different appliance. What could be the apt reason?

- a. They require different amount of current.
- b. They have different sizes.
- c. Due to use of different material.
- d. None of these

17. Identify the nature of Lens A and B. A



- a. Spherical, Convex
- b. Convex, Concave
- c. Concave, Convex
- d. Spherical, concave

18. A farmer resides in an area suffering from scarcity of water. Which method of irrigation would be best for him?

- a. Drip
- b. Sprinkle
- c. irrigation using pipeline
- d. None of these