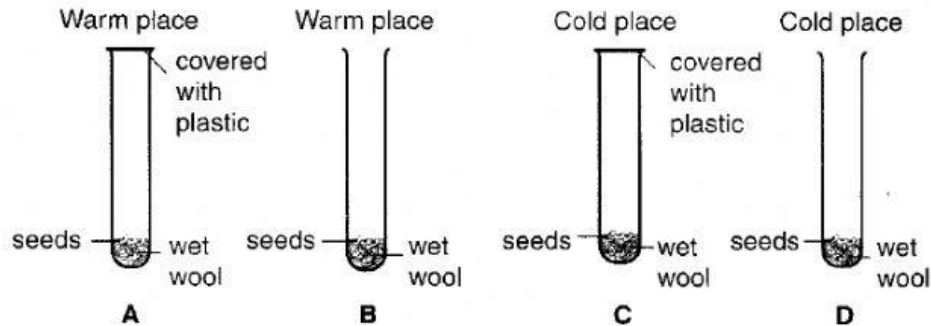


## GERMINATION

1. The experiments below are used to investigate the conditions needed for germination. In which test tube will germination take place?



2. In which of the following test tubes in Figure 2 will the seeds germinate first?

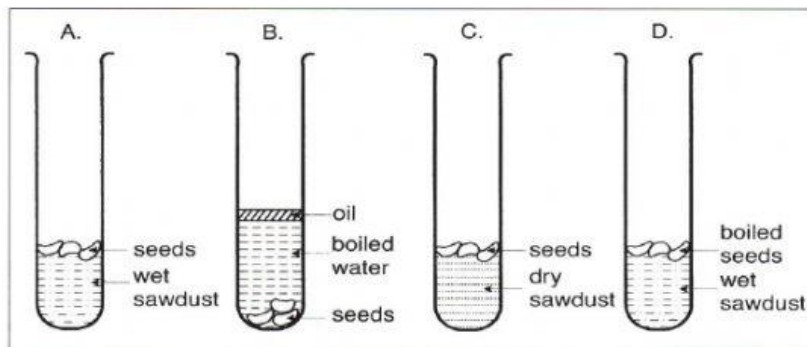


Figure 2

3. The factors necessary for a seed to grow into a seedling are

.....

- A.** air, chlorophyll and sunlight.  
**B.** air, water and warmth.  
**C.** carbon dioxide, oxygen and water.  
**D.** chlorophyll, warmth and water.

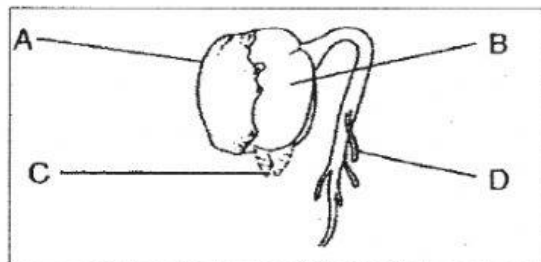


4. As seedlings grow, the cotyledons shrink and become smaller. Why does this happen?

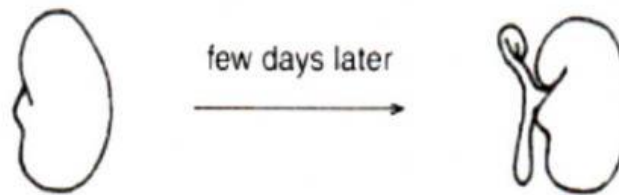
- A. The cotyledons become old.
- B. The cotyledons lose their water.
- C. The cotyledons wither and drop off.
- D. The food in the cotyledons is used up the seedlings.

☐

5. Which part of the diagram of a seed provides food to the developing embryo during germination?


☐

6. Figure below shows the early development of a mung bean seed.



Which of the following are conditions needed for the seed to develop well?

	Water	Oxygen	Temperature
A.	X	X	Cold
B.	X	X	Warm
C.	/	/	Warm
D.	/	/	Cold

☐

Key:     / = yes     X = no

7. Germination is \_\_\_\_\_.

- A. when a seed starts to grow
- B. when pollen moves stamen to stigma
- C. when an egg and pollen join together
- D. when a plant makes its own food.

☐

8. What does an ovule become when it is fertilised?

- A. a seed
- B. a fruit
- C. a sprout
- D. it stays an ovule

☐

9. The part of a plant that grows into a new plant.

- A. food store
- B. seed
- C. roots
- D. flower

☐

10. Where does the seed get its energy from?

- A. Food stored in the roots.
- B. Root coat and seed coat.
- C. Energy from the sun.
- D. Food stored in its seed leaves.

☐