

Q1: Roots grow downward towards gravity while shoot usually grows upward away from the earth. In their way the shoot & the root of a plant respond to the pull of earth's gravity.

Q2: Aim:- To explain the phenomenon of phototropism.

Materials:- (1) Two seedlings of mustard plant -

(2) A bottle containing water.

(3) A  $\frac{1}{2}$  inch cork

(4) wooden box

(5) a source of light.



### Procedure:-

Two seedlings of mustard plant were taken & kept in a small bottle containing water. Then the bottle was closed using a split cork, & then kept in a wooden box with a small opening on ~~the~~ side on one side. Then the box was kept near a light source, in such a way that the opening of the box faced the light source. Then observation was recorded after 2-3 days.

### Observation:

After 2-3 days, it was observed that the shoot bend towards the light, but root away from light.

Conclusion:- From the above activity we conclude that such a growth movement response to light is termed as phototropism.