CONTROL & COORDINATION

1. How do the shoot and roots of a plant respond to the pull of earth's gravity?

Ans. - Shoot of plant move upwards towards sunlight. This is called as phototropism

- Roots of plant grow downwards into the soil. This is called as geotropism

2. Describe an activity to illustriate the phenomenon of phototropism.

Ans AIM OF THE ACTIVITY —

- To demonstate phototropism

MATERIALS REQUIRED -

- Conical Flask
- Potted plant
- Cardboard box

Procedure —

(i) Fill a conical flask with water

(ii) Cover the neck of the flask with a wire mesh.

Conserve

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(III) Keep 2-3 freshly germinated bean seeds on the wire mesh.

(IV) Take a cardboard box which is open from 1 side

(V) Keep the flask in the box in such a manner that the open side of the box face light coming from window.

(VI) After two or three days, the shoots bend towards light & roots away from light.

(VII) Now turn the flask so that the shoots are away from light and the roots towards the light

(VIII) Leave it undisturbed for a few days.

Observation -

~~Light~~ Potted plant's shoots move towards the direction light comes from.