Biology (PGT)

(1). Ans:- The shoot of plant is negatively geotropic that it is not attracted by gravity & it grows opposite to the direction of gravitational pull. In roots it is positively geotropic that is it grows to the direction of gravitational pull.

(2) Ans:- Photoprism is defined as the growth movement of plants in response to light of stimolas. You will note that in plants, bending of shoots towards light is called positive photoprism whereas, the bending of roots away from light is called negative photoprism.

Activity - To show the photoprism taking place in the plants.

Steps

1. Take 2 seedlings of mustard plant.
2. Keep them in a small bottle containing water.
3. Now close bottle with a split cork, then keep it inside a wooden box that is provided with a small opening on one side. Now keep box near to a light source in such a way that it opening in box faces light source".

observation

After 2-3 day, you will see that "shoots bend towards light, but roots bend away from light." This type of growth movement in response to light stimulus is termed as "phototropism"