Homeworks

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

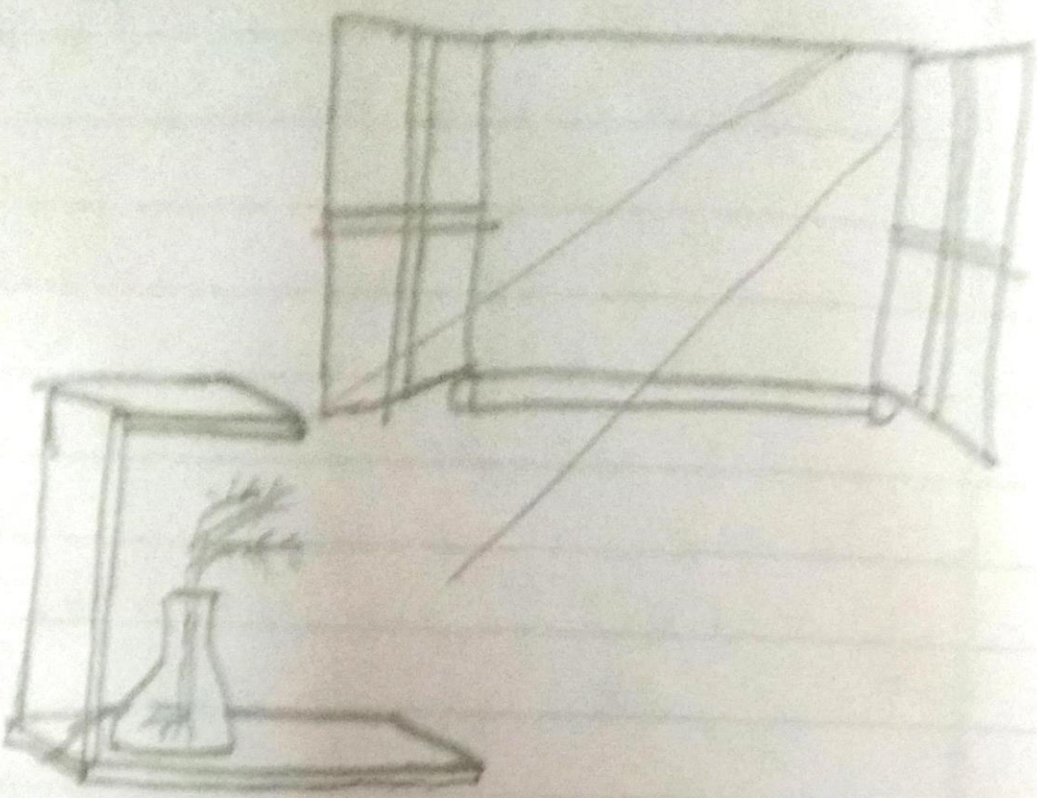
Ans * The shoot of plant is negatively geotropic. so, it is not attracted by gravity & it grows opposite to the direction of gravitation pull.
* Whereas in case of roots it is positively geotropic that is it grows to the direction of gravitation pull

2. Describe an activity to illustrate the phenomenon of phototropism and explain. Why does this occurs?

Ans- Phototropism is the movement of the part of plant in response to light. The main factor responsible for it is differential movement of auxin concentration towards the shaded area when unidirectional light is provided. So, the part which is in shade grows more and particular part of plant tilt towards source of light.

Activity * Fill a conical flask with water.

Activity



Response of the plant to the direction of light.

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* Cover the Flask's neck with a wire mesh
* Keep on the wire mesh two or three freshly sprouted bean seeds.
* Take a one-sided open cardboard box facing light from the window.
* Then we observed shoots grow up towards the light and roots away from light.