

Alkaloids - Morphine, quinine.

⑤ How does lymph help in providing immunity to our body?

Ans. It produces and releases lymphocytes and other immune cells that monitor and then destroy the foreign invaders, such as viruses, parasites & fungi.

Hwl - 7/11/21

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

Ans. The shoot part of the plant shows negative geotropism by growing in the opposite direction of the gravity.

\* The root part of the plant shows positive geotropism by growing in the same direction of the gravity.

\* In this way the shoot & roots of a plant respond to the pull of earth's gravity.

Q) Describe an activity to illustrate the phenomenon of phototropism and explain why does this occurs.

Ans- Phototropism :- The growth which response to a light stimulus. The cells on the plants that are farthest from the light have a chemical called auxin that reacts when phototropism occurs.

(i) Act. :- To demonstrate phototropism.

(ii) Material Required :- (i) Fill a conical flask with water.

\* Cover the neck of the flask with a wire mesh.

\* Keep 2 or 3 freshly germinated bean seeds on the wire mesh.

\* Take a cardboard box which is open from one side.

\* Keep the flask in the box in such a manner

that the open side of the box faces light coming from the window,

- ★ After 2 or 3 days, you will notice that the ~~seto~~ shoots bend towards light & roots away from light.
  - ★ Now turn the flash so that the shoots are away from light and the roots towards the light.
  - ★ Leave it undisturbed. ✓
- (iii) Observation :- folding up of the lower of