

#Jenny



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so many fake sites. this is the first one which worked! Many thanks

Science
(www.tstarcademy.net)
(Chapter 11 Control and Coordination)
Class - 10
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Question 1:
What are plant hormones?
Answer 1:
Plant hormones or phytohormones are naturally-occurring organic substances. These are synthesized in one part of the plant body (in minute quantities) and are translocated to other parts when required. The five major types of phytohormones are auxins, gibberellins, cytokinins, abscisic acid and ethylene.
➤ Gibberellins help in the growth of the stem.
➤ Auxins help in the growth of the stem.
➤ Cytokinins promote cell division.
➤ Abscisic acid is one example of a hormone which inhibits growth.

Question 2:
How is the movement of leaves of the sensitive plant different from the movement of a shoot towards light?
Answer 2:
➤ The movement of leaves of the sensitive plant, *Mimosa pudica* or "touch me not", occurs in response to touch or contact stimuli. This is done by plant cells by changing the amount of water in leaves. This movement is independent of growth.
➤ The movement of shoot towards light is known as phototropism. This type of movement is directional and is growth dependent.

Question 3:
Give an example of a plant hormone that promotes growth.
Answer 3:
Examples of plants growth hormones:
➤ Gibberellins help in the growth of the stem.
➤ Auxins help in the growth of the stem.
➤ Cytokinins promote cell division.

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