



**INDIAN SCHOOL MUSCAT
SENIOR SECTION
DEPARTMENT OF BIOLOGY
CLASS XI
PLANT GROWTH AND DEVELOPMENT
WORKSHEET-16**

Write the full form of IAA, IBA, NAA.

What is apical dominance?

Name the plant hormone that can delay senescence.

What is growth curve?

Distinguish between differentiation and dedifferentiation.

A gardener finds some broad-leaved dicot weeds growing in his lawns. What can be done to get rid of the weeds efficiently?

List the uses of Auxin.

Briefly describe

- a) Plasticity b) Abscission

The role of ethylene and abscissic acid is both positive and negative. Justify the statement.

Identify the gaseous plant hormone. Describe its actions in plants.

Define parthenocarpy. Name the plant hormone used to induce parthenocarpy.

What would be expected to happen if:

- a) GA₃ is applied to rice seedlings.
- b) Dividing cells stop differentiating
- c) A rotten fruit gets mixed with unripe fruits.
- d) You forgot to add cytokinin to the culture medium
- e) Induce immediate stomatal closure in leaves

Which one of the plant growth regulators would you use if you are asked to:

- a) Induce rooting in a twig
- b) Quickly ripen a fruit

- c) Delay leaf senescence⁵
 - d) Induce growth in axillary buds
 - e) Bold a rosette plant
- a) Abscisic acid is also known as stress hormone. Why?
- b) What do you understand by Photoperiodism and Vernalisation? Describe their significance.