



# INDIAN SCHOOL DARSAIT DEPARTMENT OF BIOLOGY



Subject : Biology

Topic : Plant Growth and  
Development

Date of worksheet : 17- 8 -2016

Resource Person: Zehra Fatima

Date of Submission : \_\_\_\_\_

Name of the Student : \_\_\_\_\_

Class & Division : XI A & B Roll Number : \_\_

S.No.	Questions	Marks
1 .	Name the plant hormone which was first isolated from human urine.	1
2.	Mention the cause of 'Bakane' disease of rice.	1
3.	What is the role of abscisic acid in drought conditions?	1
4.	Define the term Photoperiodism	1
5.	Name the hormone released by over-ripen apples that affects all other apples in a small wooden box.	1
6.	Why do lateral buds start developing into branches when apical bud is removed?	1
7.	Which hormone can be used by a farmer to remove broad-leaved weeds in a wheat crop farm?	1
8.	What is the name of the only gaseous plant hormone?	1
9.	Flowering in certain plants occur only when they are exposed to low temperature for few weeks. Name the phenomenon.	1
10.	a)What do you mean by the term abscission? b)Name which phytohormone involved in it.	2
11.	How can we induce lateral branching in a plant which normally does not produce them? Give reason.	2
12.	What is meant by Apical Dominance? Which hormone controls it?	2

13.	What induces ethylene formation in plants? Give any two different action of ethylene on plants.	2
14.	Define the following terms:-  i)Differentiation  ii)Dedifferentiation  iii)Redifferentiation	3
15.	Where are auxins produced in a plant? Name any one naturally occurring plant auxin and any one synthetic auxin.	3
16.	Which growth hormone is responsible for the following:  i)'bolt' a rosette plant ii)Quick ripening of a fruit iii)Induce rooting in a twig iv)Delay leaf senescence v)Induce growth in axillary buds vi)Induce immediate stomatal closure in leaves	3
17.	Mention various parameters taken into consideration for measuring the growth	3
18.	What would happen if : i)GA3 is applied to rice seedling ii)A rotten fruit mixed with unripe fruit iii)If we forget to add cytokinin to the culture medium	3
19.	Define Growth rate. Name two types of growth. Give the shape of curve for these growth.	3
20.	Enlist the five categories of phytohormone. Write any two uses of each of them.	5