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	Grade 09	SCIENCE	Unit 07	
Plant growth substances				
✤ Answer all the questions.				
	moting hormone which prod	uce in the tips of the shoo	ts and roots	
(1). Auxins	(2). Gibberellin	-		
02. Plant growth	substance that stimulate seed	d germination.		
(1). Auxins	(2). Gibberelli	-	ns (4). Cytocell	
03. An artificial g	growth substance which indu	ce flowering in pineapple	in off seasons.	
(1). IAA	(2). 4DPA	(3). NAA	(4). IBA	
04. Consider folle	owing statements			
A - Aux	ins promotes the elongation	of the stem.		
B - Gibl	berellins accelerate the cell d	livision.		
C - Cyte	okinins delay plant ageing			
Correct stater	nent/s.			
(1). only A	(2). only B	(3). only C	(4). A and C	
05. Main reason t	for making abscission layer.			
(1). Reduce th	e amount of growth substan	ces to fruit fall and leaf fal	11	
(2). To the gro	owth of leaves (3). To t	he growth of fruits	(4). None of the above	
06. Artificial gro	wth substance uses to get ma	ingo fruits in the off seaso	n.	
(1). 2, 4 DPA	(2). Cytocell	(3). NAA	(4). IBA	
07. Consider the	following diagram which ind	icates that shoot apex of th	e plant bend towards the light.	
	$C \xrightarrow{B}_A \rightleftharpoons Light$	Ĩ		
Region with t	he maximum auxin concentr	cation is,		
(1). A	(2). B	(3). C	(4). D	
08. Plant growth	substance which inhibits the	growth of lateral buds.		
(1). Auxins	(2). Gibberellin	ns (3). Cytokinin	ns (4). Cytocell	
		1 agaram.lk		

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<u>Part II</u>

- 01. (i). What are known as plant growth substances?
 - (ii). Mention 03 main natural growth substances and state 01 use of them separately.
 - (iii). What are known as inhibitors?
 - (iv). Explain how shoot apex bends towards light.
 - (v). What is the reason for falling leaves and fruits when matured?

02. Fill in the blanks by using following words in the brackets.

(IAA, 2, 4 DPA, inhibitors, auxins, artificial growth, substances,

abscission layer, NAA, dissimilar, Gibberellins, ageing)

- (i). is used as a broad leaf weedicide for paddy fields.
- (ii). is the natural plant growth substance produced at the shoot apex and root apex.
- (iii). is a natural auxin found in plants.
- (iv). Auxins the growth of lateral buds of the plant.
- (v). Due to the formation of fruits and leaves fall take place in plants.
- (vi). is used to induce flowering in pineapple in off seasons.
- (vii). promotes mainly the elongation of the stem and growth of the fruits.
- (viii). Cytokinins delay plant

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- (ix). Shoot apex turns towards light due to cell elongation of stem.
- (x). growth substances are widely used in horticulture and growing ornamental plants.
- 03. (i). Name 03 plant growth substances and mention the parts of the plant that influence and effect of plant growth substances.

Plant growth substance	Part of the plant that influence	Effect

- (ii). Name 03 artificial growth substances and mention uses of them to the agriculture separately.
- (iii). State locations of the plant where plant growth substances are created.