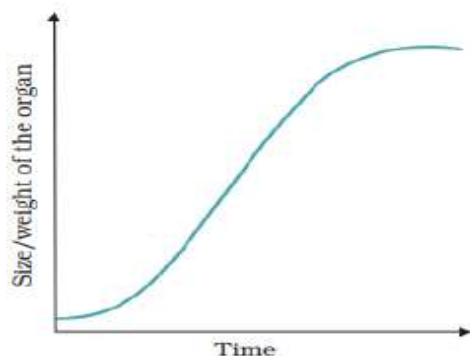


**BOTANY**  
**SECTION-A**

101. Cell elongation in internodal regions of the green plants takes place due to  
 (1) indole acetic acid (2) cytokinins  
 (3) gibberellins (4) ethylene
102. Diagram shows sigmoid growth curve typical of cells in culture. Which part of the growth shows linear (fast) growth?



- (1) Stationary phase (2) Exponential phase  
 (3) Lag phase (4) None of the above
103. \_\_\_\_\_ promotes seed germination  
 (1) Gibberellic acid (2) IAA (3) Nitrates (4) All except (2)
104. \_\_\_\_\_ is defined as the increased growth per unit time  
 (1) Absolute index (2) Relative growth rate  
 (3) Intrinsic rate of natural increase (4) Growth rate
105. Match the following: -

A	E. Kurosawa	1	Phototropism
B	F.W.Went	2	Crystallized kinetin
C	Charles Darwin	3	Gibberellins
D	Skoog and Miller	4	Oat seedlings

- (1) A-2 B-1 C-3 D-4 (2) A-1 B-2 C-4 D-3  
 (3) A-3 B-4 C-1 D-2 (4) A-2 B-1 C-3 D-4
106. ABA is antagonistic to \_\_\_\_\_ in most situations.  
 (1) GA (2) Cytokinin (3) Ethylene (4) Ethaphon
107. Match the column and select the correct option:

	Column - I (Hormone)		Column - II (Function)
A	Cytokinin	(I)	Malting
B	GA	(II)	Abscission
C	ABA	(III)	Cell division
D	Auxin	(IV)	Helpful in root development

(1) A-III	B-I	C-II	D-IV
(2) A-I	B-II	C-III	D-IV
(3) A-II	B-I	C-III	D-IV
(4) A-III	B-I	C-IV	D-II

108. The pine apple which under normal conditions is difficult to blossom has been made to produce fruits throughout the year by the application of

- (1) IAA, IBA                      (2) NAA, 2, 4-D                      (3) phenyl acetic acid                      (4) cytokinins

109. **Statement I** : Cytokinin retards rapid internode and petiole elongation in deep water rice plant.

**Statement II** : Auxins induce flowering in gymnosperms.

- (1) If Both statement I and statement II are correct  
 (2) If Both statement I and statement II are incorrect  
 (3) If statement I is correct and statement II is incorrect  
 (4) If statement I is in correct and statement II is correct

110. Study the following diagrams and describe the name of plant to which they belong?



Juvenile



Adult

(a)

- (1) Buttercup                      (2) Larkspur                      (3) Cotton                      (4) Silk cotton