EXERCISE-I

GROWTH

- 1. Maximum growth in roots occurs
 - (A) At apex (B) In presence of light
 - (C) Behind the apex (D) In presence of soil
- 2. Auxanometer is meant for
 - (A) Respiratory activity
 - (B) Photosynthetic activity
 - (C) Growth activity
 - (D) The amount of auxins
- 3. What is the role of light in plants
 - (A) It is necessary for photosynthesis
 - (B) It controls growth and movement
 - (C) It controls the distribution of hormones
 - (D) All the above
- **4.** Evergreen trees remain green throughout the year on account of
 - (A) Absence of leaf fall
 - (B) Leaves falling in small numbers at intervals
 - (C) Supply of the moisture throughout the year(D) Cold climate
- 5. The growth involves
 - (A) Cell division(B) Cell enlargement(C) Cell maturation(D) All the above
- 6. Plant growth in length is increased by
 - (A) Apical meristem(B) Lateral meristem(C) Dermatogen(D) Periblem
- 7. Growth is
 - (A) Unidirectional backward
 - (B) Reversible
 - (C) Unidirectional forward
 - (D) None of the above
- 8. The rate of growth of any organism follows
 - (A) Hyperbola curve(B) J-shaped curve(C) Sigmoid curve(D) Parabola curve

- 9. Dendrochronology is
 - (A) Secondary growth
 - (B) Apical growth
 - (C) Seasonal variation
 - (D) Determination of age of tree
- **10.** To remove seed dormancy by mechanical removing of seed coat is called
 - (A) Stratification (B) Scarification
 - (D) Photoperiodism
- **11.** The growth in plants is

(C) Venalization

- (A) Limited (B) Unlimited
- (C) Unlocalised (D) None of these
- 12. The correct sequence of cellular growth stages is
 (A) Division → differentiation → elongation
 (B) Division → elongation → differentiation
 - (C) Differentiation \rightarrow division \rightarrow elongation

 - (D) Elongation \rightarrow differentiation \rightarrow division
- **13.** Energy for the early growth of a developing bean embryo comes from
 - (A) Sunlight (B) Water in the soil
 - (C) Food in the soil (D) Leaves in the seed
- 14. The natural plant hormones were first isolated from
 - (A) Corn germ oil and human urine
 - (B) Cotton fruits spinach leaves and rice plants
 - (C) Avena coleoptile spinach leaves and the fungus gibberlla
 - (D) Human urine and rice seedlings
- **15.** Who used the term phytohormones for plant hormone
 - (A) Balis(B) Morgan(C) Went(D) Thimann
- **16.** In which of the following respect the plant hormones differ from enzymes
 - (A) Required in less quantity
 - (B) They are expended in the process
 - (C) They release some energy
 - (D) None of the above

				Plant Gr	owth and Development	
17.	Climacteric is		25.	25. Which of the following prevents falling of fruits		
	(A) A phenomenon related	l to fruit ripening		$(A) GA_3$	(B) NAA	
	(B) The condition of a plan	nt when all of its fruits are		(C) Ethylene	(D) Zeatine	
	almost ripe		26.	The movement of auxin is	largely	
	(C) The condition of a plan have turned yellow	nt when most of its leaves		(A) Basipetal(C) Centripetal	(B) Acropetal (D) Centrifugal	
	(D) None of the above		27.	Bioassay for auxin is		
18.	Plant hormones are usually	4		(A) Avena curvature test	(B) Green leaf test	
	(A) proteins			(C) Dwarf maize test	(D) Cell division test	
	(B) Lipids		28.	IAA Stands for		
	(C) Carbohydrates			(A) Indole–3–acetic anhy	dride	
	(D) Aromatic compounds			(B) Indole–3–acetic acid		
19.	Leaf fall occurs as absciss	ion layer is formed when		(C) Indole–3–acetic aceta		
	the content of		••	(D) Indole–3–acetoacetic		
	(A)Auxin increases		29.	Auxin – B was first isolate	ed by	
	(B) Auxin decreases			(A) Kogl and Erxlaben	agan smith	
	(C) Abscisic acid decrese	S		(B) Kogl, Erxlaben and H(C) Miller and Skoog	aagen – sinnin	
	(D) Gibberellic acid decre	ses		(D) Yabuta and Sumiki		
20.	Apical dominance in high	er plants is due to	30.	Flowering in pineapple is	promoted by	
	(A) Balance between auxi	n and cytokinin	000	(A) NAA	$(B) GA_3$	
	(B) Enzyme activity and m	etabolism		(C) Short days	(D) Cytokinin	
	(C) Carbohydrtes		31.	The presence of auxins	· · · ·	
	(D) Photoperiodism			tested by		
21.	Indole –3–acetic acid ca isolated from	lled as auxin was first		(A) Avena sativa stem tip test(B) Carbon tetrachloride test		
	(A) Human urine	(B) Corn germ oil		(C) Iodine test		
	(C) Fusarium	(D) Rhizopus		(D) Defoliation test		
22.	Parthenocarpy is included	by	32.	During germination, stem grows upward and root		
	(A) ABA	(B)Auxins	020	goes downward because		
	(C) Zeatin	(D) Cytokinin		(A) It depends upon light		
23.	Highest concentration of a			(B) Of auxin		
	(A) At the base of various	plant organs		(C) It does not depend on light		
	(B) Growing tip plants		(D) Of	(D) Of epinasty and hypor	nasty	
	(C) In leaves	11 1	33.	Specific property attribute	ed to gibberellins is	
	(D) In xylem and phloem cells only			(A) Shortening of genetica	lly tall plants	
24.	The primary precursor of I			(B) Elongation of genetica	lly dwarf plant	
	(A) Phenyl alanine(C) Tyrptophan	(B) Tyrosine(D) Leucine		(C) Promotion of rooting		
				(D) Yellowing young leave	es	

					owin and Development	
34.	α – amylase synthesis is induced by		43.	43. Leaf fall can be prevented by		
	(A) IAA	(B) G.A.		(A) Florigen	(B)Auxin	
	(C) Cytokinin	(D) All of these		(C) Cytokinins	(D) Abscisic acid	
35.	Cell elongation in intern	odal region takes place	44.	Which of the following is	a coconut milk factor	
	due to			(A)Auxin	(B) Cytokinin	
	(A) Gibberellins	(B) Ethylene		(C) Morphactin	(D) None of these	
	(C) Cytokinins	(D) Indole acetic acid	45.	Cytokinins are formed in		
36.	Gibberellins differ from au	ixins since they produce		(A) Roots	(B) Leaves	
	(A) Cell division			(C) Fruits	(D) Stems	
	(B) Stem elongation		46.	RNA formation is induced	l by	
	(C) Root initiation			(A) Phyllocalins	(B)All calins	
	(D) Shortening internodes			(C) Kinetins	(D) Florigens	
37.	The hormone which was di	scovered through 'foolish	47.	Name 'Zeatin' was given	by	
	seedling' disease of rice is			(A) Skoog	(B) Miller	
	(A) Indole–3–acetic acid	(B) Ethylene		(C) Letham	(D) Melver	
	(C) Gibberellic acid	(D) Kinetin	48.	All the cytokinins are		
38.	Bakane disease in paddy	is caused by		(A) Acidic	(B)Aminopurines	
	(A) Abscisic acid		40	(C) Phenol	(D) Glucosides	
	(B) Gibbererllic acid		49.	Which of the following in	iduces flowering in short	
	(C) Phenyl acetic acid			day plant	(\mathbf{D}) Control in \mathbf{D}	
	(D) Naphthalene acetic ac	id		(A) Gibberellins (C) Auxins	(B) Cytokinin (D) Ethylene	
39.	The chemical nature of gib		50	A plant hormone used for	•	
	(A)Acidic	(B)Alkaline	50.	in plant tissue culture is	inducing morphogenesis	
	(C) Proteinaceous	(D)Amines		(A)Abscisic acid	(B) Gibberellins	
40.	Genetic dwarf ness can b	be overcome by treating		(C) Cytokinins	(D) Ethylene	
	with		51	Ethylene gas	(D) Euryrene	
	(A) Cytokinin	(B)Auxins	51.	2 6	rhon	
	(C) Gibberellins	(D) Ethylene		(A) Is a saturated hydroca(B) Slows down the ripen		
41.	The hormone involved in m	etabolism of food material		· · ·	• • • •	
	in cereal grain during germ	ination is		(C) Retards ripening of tomatoes(D) Speeds up maturation of fruits and early ripening		
	(A)Auxin	(B) CK		(D) Speeds up maturation (of some fruits	of fruits and early ripening	
	(C) G A	(D) None of these	52	Ethylene is a		
42.	Cytokinin is a hormone wh	nose main function is	34.	•	(D) Casaana anguma	
	(A) Induction of cell division and delay in senescence			(A) Gaseous hormone(C) Liquid–gas mixture	(B) Gaseous enzyme (D) Solid hormone	
	(B) To take part in cell div	-	53	A higher proportion of eth		
	(C) Refers to cell moveme		55.	(A) Ripening of banana	(B) Green banana	
	(D) To cause dormancy			(C) Green apple	(D) Fresh potato tuber	

54.	The most efficient precurs	or of ethylene is	ene is GROWTH HORMONES			
	(A)Adenine	(B) Thiocarbamate				
	(C) Zeation	(D) Methionine	61.	Phytohormones control		
55	Which combination of g			(A) Growth(B) Physiological functions	2	
	ripening			(C) Rooting	5	
	(A) 80% C_2H_4 and 20%	CO		(D) Flowering		
	(B) 80% CO_2 and 20% (B)	-	62.	Substances which origina	ate at the tip of stem and	
	(C) 80% CH_4 and 20% C	-		root and control the growt	th of different organs are	
	(D) 80% CO_2 and 20% CO_2	-		(A) Enzymes	(B) Hormones	
56	A bifacial organ bends to $\frac{1}{2}$	-	(\mathbf{a})	(C) Vitamins	(D) Food substances	
20.	(A) Growth is more	(B) Growth is slow	63.	Who for the first time spe organ forming substanc		
				hormones		
	(C) Darkness is there	(D) None of the above		(A) Darwin	(B) Went	
57.	In which of the stage, the e	enzymatic actions start in		(C) Yabuta	(D) Sachs	
	plant		64.	Which of the following te	1 1 1	
	(A) Germination			the separation and identifie (A) Polarizing microscopy		
	(B) At the time of photosy			(C) Gas chromatography		
	(C) At the time of flower e	stablishment	65.	65. Why the newly harvested potato tubers of		
	(D) At the time of fertilizat	ion		germinate even when placed in favourable conditions		
58.	In lag phase, growth is			(A) Due to dormancy		
	(A) Slowest	(B) Fastest		(B) Due to lack of water a	-	
	(C) Intermediate	(D) No growth at all		(C) Due to difficulty of light	-	
59.	Grand period of growth is	called		(D) Due to lack of photos	ynthetic apparatus	
	(A) Early period			AUXI	N	
	(B) Middle period		66.	Phototropism in shoots is	attributed to	
	(C) Total growth period			(A)Auxin	(B) Gibberellins	
	(D) Decreasing growth ra	te		(C) Cytokinins	(D) Abscisic acid	
60	The effect of oxygen supp		67.	In unisexual plants, sex	can be changed by the	
00.	(A) Positive	ly on growth is		application of (A) Ethanol	(B)Auxins	
				(C) Cytokinin	(D)ABA	
	(B) Negative		68.	Most of the information re		
	(C) In some plants it is positive while in others it is			obtained from		
	negative			(A) Rice plant	(B) Maize grains	
	(D) None of the above			(C) Avena coleoptile	(D) Wheat ear	

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				Plant G	rowth and Development
69.	The formula of auxin 'a' is		78.	Name 'zeatin' was given	by
	(A) $C_{18} H_{30}$	(B) $C_{18} H_{32}$		(A) Skoog	(B) Miller
	(C) $C_{18} H_{32} O_5$	(D) $C_{18} H_{40} O_{10}$		(C) Letham	(D) Melver
70.	Phenyl acetic acid is a		79.	6-furfuryl adenine is	
	(A) Natural plant hormon	e		(A)An auxin	(B)Agibberellin
	(B) A synthetic growth hor	rmone		(C)Acytokinin	(D)Avitamin
	(C) Antihormone compou	nd	80.	•	erts Richmond-Lang effect
	(D) None of the above			i.e. prevents loss of chlor	ophyll
	GIBBEREI	TINS		(A) Kinetin/BA	
	GIDDEREI			(B)Auxin/AA	
71.	Which of the following	g exhibits a non-polar		(C) Light	_
	movement			(D) Gibberellin/Prophyrin	1
	(A)Auxin	(B) Gibberellin		ETHYL	ENE
	(C)ABA	(D) Auxin and cytokinin	81.	Ripening of banana is acc	companied with
72.	The habit of a cabbage or	-	010	(A) Sudden rise in cytoki	1
	changed drastically by the			(B) Sudden rise in auxin	
	(A) IAA	$(\mathbf{B}) \operatorname{GA}_{3}$		(C) Sudden rise in ethyle	ne
	(C)ABA	(D) 2, 4-D		(D) Sudden rise in gibber	
73.	In some plants, the cold tr	eatment may be replaced	82.	U U	n be hastened by treatment
	by the application of	$(\mathbf{D}) \subset (1, 1)$		with	,
	(A) Ethylene	(B) Cytokinin		(A) Gibberellic acid	(B) Indole acetic acid
- 4	(C) Gibberellin	(D) Abscissic acid		(C) Florigen	(D) Ethylene gas
74.	Gibberellin is obtained fro		83.	Which of the foll	owing is called as
	(A) Fungus	(B)Alga		phytogerontological horn	none
75	(C) Basidiolichen	(D) Flowering plants		(A) Ethylene	(B)Auxin
/5.	Gibberellin is helpful in	(D) Is the sine three form		(C) Gibberellin	(D) Cytokinin
	(A) Elongation of plants	(B) Inducing dwarfism	84.		ing responses of plants to
	(C) Fat hydrolysis	(D) Protein synthesis		growth hormones is true	-
				(A) Increase in cell elong	
	СҮТОКІ	NIN		(B) Decrease in the formation of female flowers	
76	Guttman (1957) found a qu	ick increase in the amount		(C) Increase in ripening of	
70.	of RNA in the nuclei on of		(D) Decrease in abscission of		
	(A)Auxin treatment	(B) Kinetin treatment	85.	Artificial ripening of white useless	ch of the following fruits is
	(C) Gibberellin treatment			(A) Mango	
77.	Cytokinin firstly synthesize			(B) Banana	
- •	(A) Skoog and Miller	(B) Letham		(C) Grapes	

(D) Thimman and Went

(D) Pomegranate/Coconut

(C) Bensan and Calvin

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ABAAND OTHER GROWTH REGULATORS		96. Name 'Phytochrome' was given by				
				(A) Mothes		
86.	36. The following is a naturally occurring growth			(B) Borthwick and Hendrick		
	inhibitors-			(C) Sorokin et al		
	(A) IAA	(B) ABA		(D) Wickson and Thimma	n	
0.	(C) NAA	(D) GA	97.	If the seedlings are grown	in darkness	
87.	Wound hormone is called	·		(A) They are of the same s	ize as those grown in light	
	(A) Necrohormone	(B) Hormone only		(B) They are much healthie	er than those grown in light	
00	(C)Auxins	(D) Phyllocaline		(C) They are similar to the	ose grown in light	
88.	Elongation of internodes is	•		(D) They are taller than the	ose grown in light	
	(A) Gibberellins	(B) Morphactins	98.	Florigen is synthesized in		
00	(C) Both (A) and (B)	(D) None of these		(A) Stem	(B) Leaves	
89.	Bud dormancy is induced	-		(C) Root	(D) Fruits	
	(A) ABA	(B) IAA	99.	Phytochrome becomes ac	tive in	
0.0	(C) Ethylene	(D) Gibberellic acid		(A) Green light	(B) Blue light	
90.	This hormone affects open			(C) Red light	(D) None of these	
	(A) GA	(B) Kinetin	100	Which of the following is	absolutely necessary for	
01	(C)ABA	(D) IBA		germination		
91.	Which of the following fac	tors influence the process		(A) Light	(B) Water	
	of flowering		(C) Low temperature (D) mineral salts			
	(A) Acidity of soil(B) Water in the soil		101	.During seed germination	$(\mathbf{D}) \mathbf{C}(\mathbf{r}_{1}, \mathbf{r}_{2}, \mathbf{r}_{3}) = \mathbf{c}(\mathbf{r}_{1}, \mathbf{r}_{3}) \mathbf{c}(\mathbf{r}_{2}, \mathbf{r}_{3}) \mathbf{c}(\mathbf{r}_{3}, \mathbf{r}_{3}) $	
	(C) Amount of green pigm	ont		(A) heat is liberated	(B) Starch is synthesized	
	(D) Photoperiod		(C) Fat is synthesized (D) Light is absorbed102.Legume seeds exhibit dormancy because of			
02	The red absorbing form	of phytochrome gets	102	e	•	
14.	converted to the far red abs	· · ·		(A) Undeveloped embryo	OS	
	irradiated at	88		(B) Hard seed coat		
	(A) 660 nm	(B) 730 nm		(C) Absence of cytokinins		
	(C) 530 nm	(D) 660 nm to 730 nm	103	(D) Absence of gibberellie		
93.	Effect of length of day (lig	ht duration) on flowering	103	What causes delay in gern		
	is called			(A) Mechanical resistance		
	(A) Phototropism	(B) Photoperiodism		(B) Impermeability of see		
	(C) Photo respiration	(D) None of these		(C) Unavailability of wate(D) All the above	er and O_2	
94.	Which of the following is	a short day plant	10/	Why the newly harveste	ed notato tubers do not	
	(A) Wheat	(B) Barley	104	germinate even when place	1	
	(C) Larkspur	(D) Dahlia		(A) Due to dormancy		
95.	The movement of organs in	response to light is called		(B) Due to lack of water a	absorption	
	(A) Hydrotropism	(B) Thigmotropism		(C) Due to difficulty of lig	-	
	(C) Phototropism	(D) Geotropism		(D) Due to lack of photos	1	

105. Dormancy of seed is bro	oken hv	114. Bulliform cells in grass lea	aves show
(A)Auxin	(B) Gibberellins	(A) Growth movements	(B) Tropic movements
(C) Ethylene	(D) Cytokinin	(C) Nastic movements	(D) Turgour movements
•	. , .	115. Grasses fold their leaves due to	
	106. Treatment of seed at low temperature under moist conditions to break its dormancy is called		
(A) Chelation	(B) Stratification	(A) Bulliform cells (C) Hydathodes	(B) Stomata (D) Transfusion tissue
(C) Scarification	(D) Vernalization	116. Stimulus for flowering ac	
107. If the stem grows towar		(A) Young leaves	(B) Mature leaves
just opposite to it, The st	6 6	(C) Stem tissues	(D) None of the above
(A) Negative phototropic		117. IAA firstly isolated from	(D) I tone of the above
(B) Phototropic moveme		(A) corn germ oil	(B) Wheat endosperm
(C) Positive phototropic	movement	(C) human urine	(D) None of the above
(D) None of these		118. Who discovered cytokini	
108. Opening of floral buds in	nto flowers, is a type of	(A) Miller	(B) Letham
(A)Autonomic moveme	nt of locomotion	(C) 1 & 2	(D) None the above
(B)Autonomic movement	nt of variation	119. Mimosa pudica show	
(C) Paratonic movement	t of growth	(A) Thig motropism	(B) Seismonasty
(D) Autonomic moveme	nt of growth	(C) Chemotaxis	(D) Geotropism
109. Protoplasmic streaming (A) Autonomic moveme		120. Auxenometer is a apparatus which can be used in the measuring	
(B) Thigmonasy		0	(D) Data of Description
(C) Photonasty		· · · ·	is (B) Rate of Respiration
(D) Movements of curva	ture	(C) Rate of growth	(D) Transpiration
110. Movements of tentacles		121. Hormone used in early rip	
(A) Photonastic	(B) Thermonastic	(A)Auxin (C)Ethylene gas	(B) ABA (D) Cytokinin
(C) Thigmonastic	(D) Seismonastic		•
111. Pneumatophores show		122. Apical dominance is caus (A)Auxin	(B) Gibberellin
(A) Positive geotropism		(C) Kinetin	(D)ABA
(B) Negative geotropism	1	123. Which one of the followin	
(C) Thigomotropism		as a stress hormone	g plant normone is known
(D) Negative phototropia	sm	(A) Gibberellin	(B) Kinetin
112. Jerky lateral movements	of Desmodium gyrans are	(C)Auxin	(D) Abscisic acid
(A) Negative geotropic r	novements	124. Genetically dwarf plant c	
(B) Positive geotropic movements		(A) GA	(B)ABA
(C) Hydrotropic movem	ents	(C) IAA	(D) CK
(D) None of the above		125. Some flowers open during	
113. On touching the leaves	of Mimosa pudica droop	night. It is called	g the day time and close at
down because of		(A) Phototaxy	(B) Photoperiodism
(A) Seismonasty	(B) Hydrotropism	(C) Phototropism	(D) Photonasty
(C) Chemonasty	(D) Thigmotropism		

		Plant G	rowth and Development
126. The hormone which has negative effect on apical dominance is		137. Bioessay of IAA (Indole acetic acid) is tested by (A) α - amylase test	
(A) Cytokinin	(B)Auxin	(B) Avena curvature test	t
(C) Gibberellin	(D) Ethylene	(C) Soyabeen callus	ı
127. The movement of hairs of	•	(D) Xanthium leaf disc te	
(A) Chemotropism	(B) Thigmonasty	. ,	
(C) Thigmotropism	(D) Thermotropism	138. What will be effect on cu	nd the coleoptile and then
128. The growth hormones res	· · · -	exposed to unidrectional	-
(A)Auxins	(B) Kinetine	(A) Curvature towards li	-
(C) Coumarins	(D) Gibberellins	(B) Curvature away from	-
129. The chemical nature of ki	netin is	(C) No curvature occurs	0
(A) Butyric acid	(B) Indole butyric acid	(D) None of the above	, ,
(C) 6- furfuryl amino puri	ne(D) Indole acetic acid	139. Went found that curvatur	re of coleoptile is
130. Weedcide 2, 4 - D is			l to concentration of auxin
(A) Pesticide		(B) Inversely proportional to concentration of auxin	
(B) Growth inhibitor horr	none	(C) Not affected by concentration of auxin	
(C)Auxin		(D) None of the above	
(D) Insecticide		140.IAA is synthesized from	
131. Movement of pollen tube to wards micropyle of ovule		(A) Tryptophan	(B) Acetyl CoA
depend on		(C) Methinonine	(D) All the above
(A) Thigmotropism	(B) Chemotropism	141. Which of these is not for	und as natural auxin but is
(C) Thermotropism	(D) Hydrotropism	effective as natural auxin	
132. Which one of the followin (A) Ethylene	(B) ABA	(A) Phenyl acetic acid	(B) Piconilic acid
(C) GA	(D) IAA	(C) Both of above	(D) None of above
133. Which one of the follow		142. What is 2-4 D	
during leaf fall	ing normone is produced	(A) 2-4 dichloro napthalene acetic acid	
(A)ABA	(B) Cytokinin	(B) 2-4 dichloro phenox	•
(C) Florigen	(D) All of these	(C) 2-4 dichloro napthox	•
134.Gibberellin is obtained fro	om	(D) 2-4 dichloro benzoic acid	
(A) Phytophthora infesta	ns (B) Fusarium indicum	143.In plants, how many type	es of auxins are found at a
(C) Gibberella fujikuroi	(D) Alternaria solani	time	
135. Plant show Tropic mover		(A) One type (C) Three types	(B) Two types(D) Many types
called	1 0	144. How the polar transport of auxins occurs	
(A) Photosynthesis	(B) Photolysis	(A) From tip towards ba	
(C) Phototropism	(D) Phototaxis	· · · -	
136.Plant movement in diffuse	ed light is	(B) From base towards tip(C) From centre towards lateral side	
(A) Photosynthesis	(B) Photolysis	(D) From lateral side tow	
(C) Phototropism	(D) Phototaxis		

		Flaint Gr	owth and Development	
		155. What happens during the formation of abscission		
stem		layer		
(A) NAA (C) Dath of shows	(B) IBA	(A) Auxin synthesis increa (B) Auxin synthesis decre		
	(C) Both of above (D) None of these			
146. Which are called the hor		(C) Ethylene amount incre	eases	
(A) IAA/IBA	(B) NAA/IAA	(D) Both 2 & 3		
(C) NAA/IBA	(D) IBA/NAA	156. It is essential for synthesis	of auxin	
147.Dormancy in potato can	•	(A) Mn	(B)Zn	
(A) IBA	(B) NAA	(C) Ca	(D) Mg	
(C) Malic hydrazide	(D) All the above	157. Which is the most importa	nt gibberellin	
148.Parthenocarpy can be in	•	$(A) GA_1$	$(B) GA_2$	
(A) IAA	(B) NAA	$(C) GA_3$	$(D) GA_4$	
(C) IBA	(D) All the above	158. Where is gibberellin found	in maximum concentration	
149. What is used to control le		(A) In young leaves and s	eeds	
(A) ∞ -naphthalene acet	ic acid	(B) In root, rhizome apex		
(B) IAA		(C) In mature leaf		
· · · · · ·	$(C) \propto$ -naphthyl acetamide		(D) All the above	
(D) all the above		159. Gibberellin is formed from		
150. The sweetness of sugard	•	(A) Acetyl Co~A	(B) Methionine	
(A) 2-4D	(B) IBA	(C) isoprene	(D) None of these	
(C) Malic hydrazide	(D) All the above	160. What is the sudden growt	h in very reduced stem in	
e	151. More flowering and fruiting in pineapple occurs		biennials called	
due to		(A) Bolting	(B) Cell elongation	
(A) NAA (C) Both of above	(B) 2-4D(D) None of above	(C) Internode elongation	(D) None of the above	
		161.Parthenocarpy can be ind	uced in apple and pear by	
152. Why the fruits become sw		(A)Auxins	(B) Gibberellins	
(A) By formation of mor	-	(C) Both of above	(D) None of these	
(B) By conversion of sta	rch to sugar	162. Which enzyme is syntheized de-novo in aleurone layers of germinating seeds due to the effect of		
(C) Both of above				
(D) None of above		gibberellins		
153. Why more fruits appear	in apple due to auxins	(A) α -Amylase	(B) Protease	
(A) By formation of mor	e flowers	(C) Lipase	(D) None of these	
(B) By formation of mor	e spurs	163. Generally which sex dev	elops due to the effect of	
(C) By reducing the time of fruit formation		gibberellins		
(D) All the above		(A) Maleness	(B) Femaleness	
154. Testing of biologically a	ctive substances on living	(C) Bisexuality	(D) None of these	
beings is called		164. In which plants, gibberellin	ns induce flowering	
(A) Biological testing	(B) Utility testing	(A) In LDP	(B) In SDP	
	(D) Clincy tobulic	(C) In DNP		

		Plant	Growth and Development	
165. What is the chemical na	me of Kinetin	173. Ethylene can be used an		
(A) 6-(4 hydroxy 3-methyl trans 2-butene aminopurine)		(A) Ethene	(B) Ethephone	
		(C) Both of above	(D) None of the above	
(B) 6-furfuryl aminopur	(B) 6-furfuryl aminopurine		cter of ethylene	
(C) Dimethyl allyl adeni	ine	(A) Fruit ripening		
(D) None of the above		(B) Isodiametric growt	h	
166. Which is the most effect	tive cytokinin	(C) Growth in length of	fstem	
(A) Kinetin	(B) Kinin	(D) None of the above		
(C) Zeatin	(D) All these	175.Synthesis of abscisic ad	cid occurs in	
167. Cytokinin is mainly four	nd in	(A) Leaves	(B) Stem	
(A) Stem	(B) Root	(C) Seeds and fruits	(D) All the above	
(C) Leaf	(D) All the above	176. Which effect is due to a	abscisic acid	
168.By which experiment cy	ytokinin is bioassayed		(A) Induction of dormancy in buds or seeds	
(A) Induction of growth	in soybean cotyledon culture	(B) Inhibition of growth		
(B) Induction of growth in tobacco cortex culture		(C) Senescence		
(C) Both of the above		(D) All the above177. In which plants inhibitory effect on flowering occurs due to abscisic acid		
(D) None of the above				
169. Delay of senscence is d	lue to the effect of	(A) In LDP	(B) In SDP	
(A)Auxin	(B) Cytokinin	(C) In DNP	(D) None of these	
(C) Both of above	(D) None of the above		therozoids of Marchantia &	
170.Cytokinins cause increa	ase in resistance against	Moss are attracted respectively		
(A) Effect of high tempe	erature	(A) Protein/sugar	(B) Protein/Malic acid	
(B) Effect of low tempe	erature	(C) Sugar/Protein	(D) malic acid/ sugar	
(C) Diseases		179.Closed state of floral	bud, circinate vernation in	
(D) All the above		leaves of fern, straingthening of floral axis of opium		
171. The most abundant cyto	-	is due to		
(A) DMAA (Dimethyl a	J	(A) Epinasty	(B) Nutation	
(B) IPA (Isopentynyl adenine)		(C) Hyponasty	(D) None of these	
(C) BA (Benzyl adenine)		180. What is the reason of phototropism		
(D) EEA (Ethoxy ethyl adenine)		(A) More distribution of		
172. What is the precursor o	-	(B) Less distribution of auxin		
(A) Tryptophan	(B) Ethene	(C) Uneven distribution		
(C) Methionine	(D) None of these	(D) Rapid synthesis of a	auxin	